CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, October 20, 1904.

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PERSONAL.

Mr. M. N. Baker, of the editorial staff of this journal, has been elected President of the Board of Health of Montclair, N. J.

Mr. Elmer Sowers, Civil Engineer for the Spokane Valley Land & Water Co. has opened an office in the Clark Building, Spokane, Wash.

Mr. G. W. Zorn has been elected Chief Engineer of the Oregon Basin Irrigation Project in Big Horn County, Wyoming, and will make his headquarters at Cody, Wyo.

Mr. William D. Waltman and Miss Olive P. Yerlan were married at Colorado Springs, Colo., Oct. 6. Mr. Waltman has been Assistant City Engineer of Colorado Springs for several years.

Mr. W. P. Homan has been appointed Chief Engineer in charge of construction of the St. Louis, Brownsville & Mexico Ry., with headquarters at Corpus Christi, Tex., vice Mr. F. G. Jonah, resigned.

Mr. E. U. Harlan has been appointed General Manager of the Monterey Electric Street Railway, Light & Power Co., recently formed to convert the horse car system at Monterey, Mex., into an electric road.

Mr. J. V. Hanna has been appointed Assistant Engineer Maintenance of Way of St. Louis & San Francisco R. R., with headquarters at St. Louis, Mo., to succeed Mr. M. C. Byers, assigned to other duties.

Mr. F. D. Anthony has resigned as Chief Engineer of the Quebec Southern Ry. Mr. T. Brennan, Roadmaster, with headquarters at Sorel, Que., will have charge of matters pertaining to maintenance of way and bridges.

Mr. Fred'k A. Scheffler has been appointed Special Representative of The Stirling Co., with headquarters in their New York office, 114 Liberty St. Mr. Scheffler will be associated with Mr. A. L. Rogers, District Sales Manager.

Mr. J. A. Edson has been appointed General Manager of the Cincinnati, Hamilton & Dayton Ry. and the Chicago, Cincinnati & Louisville Ry., with offices at Cincinnati, O. He succeeds Mr. C. G. Waldo, who has resigned.

Mr. H. Rittenhouse has been appointed Engineer Maintenance of Way of the Cumberland & Pennsylvania R. R., with headquarters at Cumberland, Md. He succeeds Mr. O. C. Deffenbaugh, whose title was Supervisor of Road.

Mr. W. E. Miller, a civil engineer in the employ of the Pennsylvania Lines west of Pittsburg, and Miss Edith L. Tobias, of Lafayette, Ind., were married in that city Oct. 12. Both the bride and groom were graduated from Purdue University in the class of '03.

Mr. Frederic R. Page, formerly Chief Engineer and Superintendent of Construction of the Mabou Coal Mines and the Mabou & Gulf Ry., of Mabou, Cape Breton, is now Superintendent of Construction of dam, canal and power plant of Belton Power Co., near Honea Path, S. C.

Yoshio Kinoshita, General Passenger Agent of the Imperial Government Railways of Japan, is now in this country. He is to make a thorough inspection of American railroad methods in so far as they apply to the passenger service. He expects to spend two years in America and Europe before returning to Japan.

Mr. Edward R. Cary, M. Am. Soc. C. E., has been appointed Professor of Geodesy and Railroad Engineering in Rensselaer Polytechnic Institute. After graduating from Rensselaer in 1888 Mr. Cary became Assistant in the Department of Geodesy and Railroad Engineering in that institution. In 1903 he was made Assistant Professor in the same department. He was for three years City Engineer of Troy, N. Y.

Mr. W. J. Towne has been appointed Engineer of the Wisconsin and North Wisconsin Divisions of the Chicago & Northwestern R. R., with headquarters at Chicago. He succeeds Mr. C. T. Dike, who has been assigned to duty on construction work. Mr. W. W. Gaffin, Division Engineer, at Escanaba, Mich., has been appointed Engineer of the Madison Division, with headquarters at Baraboo, Wis., to succeed Mr. Towne.

Mr. W. B. Sisson, formerly Assistant Engineer of the Baltimore & Ohio R. R., with headquarters at Morgantown, W. Va., Mr. P. A. Beatty and Mr. C. S. Herrick, also formerly on the engineering staff of the Baltimore & Ohio, and Mr. H. C. Robinson, a civil engineer of Portland, Me., sailed from New York, Oct. 18, for South America, where they will engage in the work of making about 600 miles of preliminary surveys in Bolivia. The headquarters of the party will be at La Paz, Bolivia.

The annual track inspection of the main line of the Pennsylvania R. R. has been completed, and in accordance with its usual custom the company has awarded premiums to the various Supervisors, according to the condition of their sections of the line. The awards are decided as the result of a periodical inspection, which is made during the year between Pittsburg and Jersey City and Philadelphia and Washington by a committee, consisting of the Chief Engineer Maintenance of Way, four Division Superintendents and the Engineer Maintenance of Way, and the result is announced at the termination of the General Manager's inspection, which is usually made in the early part of October, and which is a general inspection made by the operating officers over the main line.

The list of premiums, conditions under which they are awarded and Supervisors who secured premiums the past year, are as follows:

Premium of $1,200.—$800 to the Supervisor, and $400 to the Assistant Supervisor having the best line and surface between Pittsburg and Jersey City and between Philadelphia and Washington, during the entire year since the last annual inspection was awarded to Supervisor's Division No. G, of the New York Division, as follows:

$800 to Supervisor J. J. Rhoads, Tacony, Pa.
$400 to Assistant Supervisor W. G. Shaner, Tacony, Pa.

Four premiums of $800 each.—$600 to the Supervisor and $200 to the Assistant Supervisor having the best line and surface on each of the Main Line Superintendents' Divisions between Pittsburg and Jersey City and between Philadelphia and Washington during the year since the last annual inspection were awarded as follows:

Maryland Division—Supervisor's Division No. 3.
$600 to Supervisor J. S. Elliott, President Station, Baltimore, Md.
$200 to Asst. Supervisor W. E. Brown, President Station, Baltimore, Md.

Philadelphia Division—Supervisor's Division No. 2.
$600 to Supervisor J. J. Keenan, Paoli, Pa.
$200 to Asst. Supervisor C P. Cook, Paoli, Pa.

Middle Division—Supervisor's Division No. 7.
$600 to Supervisor E. E. Lippincott, Huntingdon, Pa.
$200 to Asst. Supervisor R. H. Pinkham, Huntingdon, Pa.

Pittsburg Division—Supervisor's Division No. 10.
$600 to Supervisor Geo. Ehrenfeld, Gallitzin, Pa.
$200 to Asst. Supervisor W. F. Courts, Gallitzin, Pa.

Improvement Premium of $1,000.—$700 to the Supervisor and $300 to the Assistant Supervisor showing the greatest improvement in line and surface during the year on the Main Line between Pittsburg and Jersey City and between Philadelphia and Washington was awarded to Supervisor's Division No. 4, of the Maryland Division, as follows:

$700 to Supervisor Frank L. Pitcher, Bowie, Md.
$300 to Asst. Supervisor R. H. Orwig, Bowie, Md.

The Yard Supervisor's premium of $100 for the best Main Line yard, both with reference to line and surface and general appearance of the yard, between Pittsburg and Jersey City and between Philadelphia and Washington at the date of the annual inspection, was awarded to W. T. Covert, of West Philadelphia, Pa., Supervisor of West Philadelphia Yard of the Philadelphia Terminal Division.

In addition to the above premiums some of the Superintendents' Divisions have premiums which are awarded to the Sub-Division Foremen showing the best track for the year.

OBITUARY.

Edward Kent Robbins, a well known builder of Brooklyn, N. Y., died at his home in that city Oct. 30.

David Thompson, a contractor and builder, died suddenly of a stroke of paralysis in the Medbury Hotel, Ballston, N. Y., Oct. 12. He was 54 years old.

Armistead M. Lee, a civil engineer, residing at one time at Leesburg, Va., was drowned recently in New Mexico, where he had gone to engage in engineering work.

Col. Chas. P. Ball, a former member of the Alabama Railroad Commission, died at Montgomery, Ala., Oct. 13, aged 67 years. Col. Ball was formerly Superintendent of the West Point R. R., and later was Superintendent of the Eastern & Western R. R.

Edwin Ludlam, formerly Secretary of the Brooklyn Union Gas Co., of Brooklyn, N. Y., died at his home in that city Oct. 13. Mr. Ludlam was President of the People's Gas & Light Co. for 25 years and on its consolidation with Brooklyn Union Gas Co. became Secretary of the latter.

Walter A. McDonald, County Surveyor of Chester County, Pennsylvania, died at his home in West Chester, Pa., Oct. 10. Mr. McDonald had been County Surveyor since 1886, and was the builder of the trolley road from West Chester to Downingtown, and the 20-mile line from Greencastle to Pen Mar.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.

IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 26, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

ENGINE BUILDERS' ASSOCIATION OF THE UNITED STATES.
Dec. 2, 3, 1904. Annual meeting at New York, N. Y. Secy., D. Fleming, Harrisburg, Pa.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City. Secy., F. R. Hutton, 12 West 31st St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

ENGINEERS' CLUB OF CINCINNATI.—At the regular monthly meeting of Oct. 20, to be held in the rooms of the Literary Club, 25 East Eighth St., Cincinnati, O., Mr. B. W. Fenton will read a paper on "An Ideal City." Secy., C. H. Meeds.

CANADIAN SOCIETY OF CIVIL ENGINEERS.—The autumn season opens with a meeting of the General Section of the society at the society's house, 877 Dorchester St., Montreal, P. Q., on the evening of Thursday, Oct. 20. Mr. R. W. Leonard will present a paper entitled "Experiments on the Loss of Heat from Iron Pipes." Secy., C. H. McLeod.

SOCIETY OF CHEMICAL INDUSTRY—NEW YORK SECTION.—At the meeting of Friday, Oct. 21, two papers will be read: Mr. J. R. Mardick on "Present Methods of Tannin Analysis and their Influence on the Manufacture of Leather," and Mr. H. W. Maurer on "Thermometers and Mercury Vacuum Gages." The meeting will be held, as usual, at the Chemists' Club, 108 W. 55th St., New York, and will be preceded by an informal dinner at the cafe of the Hotel Savoy. Secy., H. Schweitzer, 40 Stone St., New York.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.—The Chemical Section of the society will meet with the Pittsburg section of the American Chemical Society on Oct. 20, when Mr. T. E. Hewitt will read a paper on "The Colorimetric Estimation of Phosphorus." On October 27 the section will visit the Ward-Mackey Bakery, Liberty and 31st St. The Mechanical Section holds its next meeting on Tuesday, Nov. 1. Mr. J. H. Baker will present a paper on "Forging Machinery."

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The Nominating Committee of the society has presented the following ticket for vote at the next annual meeting: For President, C. C. Schneider, New York; for Vice-Presidents, Mr. M. L. Holman, St. Louis, Mo., and Mr. Emil Kuichling, New York; for Treasurer, Mr. Joseph M. Knap, New York; for Directors, Mr. Morris R. Sherrerd, Newark, N. J., Mr. Ausin Lord Bowman, New York, N. Y., Mr. Hezekiah Bissell, West Medford, Mass., Mr. Edwin A. Fisher, Rochester, N. Y., Mr. Wm. B. Landreth, Albany, N. Y., and Mr. George S. Pierson, Kalamazoo, Mich.

CEMENT USERS' ASSOCIATION.—A meeting of a number of persons interested in cement and cement construction was held in St. Louis during the recent International Engineering Congress, at which reports were made of the results of a canvass of the question of forming an association composed of users of cement. Circular letters had been sent to persons engaged in cement and concrete construction, especially in concrete block manufacture, asking for expressions of opinions regarding time and place of meeting for the formation of such an association. A large number of replies to the circular letters had been received, and as a result of this expression of opinion, it was decided at the meeting to issue a call for a convention of users of cement at Indianapolis, January 17 to 19, 1905. Arrangements were made for securing competent persons to speak upon the various subjects which will come up for discussion, and to arrange for the local entertainment of the convention, so

that it may be successful in all its details. Mr. C. C. Brown, Commercial Club Bldg., Indianapolis, Ind., will be glad to reply to requests for further information.

AMERICAN GAS LIGHT ASSOCIATION.—The annual meeting which is being held at the Willard Hotel, Washington, D. C., during the three days, Oct. 19 to 21, has the following program of technical papers: "Generation of Steam by Waste Heat from Water Gas Sets," by Mr. D. McDonald, Louisville, Ky.; "Distributing Power in a Gas Works by Means of Electricity Generated at a Central Point," by Mr. W. A. Baehr, St. Louis, Mo.; "Oxide Purification," by Mr. E. H. Earnshaw, Philadelphia, Pa.; "Methods of Charging for Gas," by Mr. F. W. Frueauff, Denver, Colo.; "Consumers' Meters," by Mr. B. H. Spangenberg, Philadelphia, Pa. There are also discussions on subjects relating to coal-gas manufacture. The meeting includes a banquet on Thursday evening, Oct. 20, and an excursion to Mount Vernon on Friday. Secy., A. E. Forstall, 58 William St., New York.

BOSTON SOCIETY OF CIVIL ENGINEERS, SANITARY SECTION.—A dinner and meeting of the sanitary section was held at the Copley Square Hotel on the evening of Oct. 12, with about fifty in attendance. A paper, entitled "A Recent Visit to Twenty-Four British Sewage Works," was read by Mr. M. N. Baker, of the editorial staff of Engineering News. The author stated that the 24 works visited by him last winter and spring had tributary populations ranging from 4,500,000 at London to 1,000 at the Sandhurst Military Schools, and aggregating about 8,500,000. Nine of the places visited had populations of 100,000 or more. These are only a few of the many sewage purification works in Great Britain, which fact serves to illustrate the extent to which sewage treatment has been carried in that country.

Mr. Baker stated that at first he was greatly impressed with the apparently unsettled condition of British sewage works practice, but he finally concluded that the apparent confusion was largely due to differences in details rather than in essentials, and also to the mastering desire of the British health officer, chemist and engineer (particularly the first and second) to be known as an originator of a new method of treating sewage.

Of the newer processes of sewage treatment, percolating filters are now rapidly gaining ground. They are operated at a high rate and produce a non-putrescible effluent, high in sediment. To remove this suspended matter small settling reservoirs are sometimes provided.

Septic tanks are quite generally used as preliminaries to both contact beds and percolating filters. Most of the septic tanks are open. Chemical precipitation, and in some instances plain sedimentation, are also employed as preliminary processes.

Prof. Leonard P. Kinnicutt, of Worcester, Mass., on opening the discussion spoke favorably of percolating filters. The suspended matters in the effluent settle quickly, so that where there is need for their removal only small settling reservoirs need be provided. The holes in the arms of revolving sewage sprinklers for percolating filters require frequent cleaning to prevent clogging where they are used to distribute septic tank effluent.

Mr. H. W. Clark, Chemist of the Massachusetts State Board of Health, exhibited samples of effluents from intermittent filters, contact beds and percolating filters. These samples showed a very clear effluent from the intermittent filters and a quite turbid one from the others, but the latter are operated at a high rate. The suspended matter in the effluents from the percolating filters is largely inorganic.

Mr. T. H. McKenzie, Engineer-Member of the Connecticut State Board of Health, and Mr. H. P. Eddy, Superintendent of Sewers at Worcester, Mass., also made comments on the paper.

ENGINEERING SCHOOLS.

PRATT INSTITUTE.—The Pratt Institute Free Library, Brooklyn, has just opened to the public an Applied Science Reference Room, devoted to technical and trade literature. It is desired to make this department as useful as possible to the practical men engaged in the various trades and industries. The room contains books, bound periodicals, and current periodicals. It is in charge of Mr. Herbert L. Cowing, a graduate of the Mechanical Engineering course of Cornell University. The room is open every day from two till six, and on Monday, Wednesday and Saturday evenings until 9.30. A cordial invitation is extended to all who are interested. The institute wishes to form a collection of trade catalogues and bulletins bearing upon all branches of industry. These catalogues will be accessible to the public.

RENSSELAER POLYTECHNIC INSTITUTE.—A new fireproof structure will be erected this year to take the place of the Main Building, which was destroyed last year by fire. It will contain recitation rooms and drawing rooms for the various departments. The present membership of the institute is about 400.

Edward R. Cary, M. Am. Soc. C. E., has been appointed Professor of Geodesy and R. R. Engineering in the institute. Mr. Cary is a native of Troy and was graduated at the institute in the class of '88. Upon completing his course he became Assistant in the Department of Geodesy and R. R. Engineering, and in 1903 he was made Assistant Professor in the same department. He was City Engineer of Troy for three years.

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

DRAINAGE ENGINEER.—U. S. Civil Service Commission, Washington, D. C., from whom further information can be obtained, will hold an examination Nov. 22-23, at various places throughout the country, to secure eligibles to fill vacancies as they may occur in the position of drainage engineer, in connection with the irrigation and drainage investigations in the Office of Experiment Stations, Department of Agriculture. The initial salary will be from $1,500 to $2,000 per year, according to qualifications.

ASSISTANT CIVIL ENGINEERS.—An examination will be held at the Navy Yard, New York, N. Y., beginning Jan. 9, 1905, to secure eligibles for the appointment of five Assistant Civil Engineers in the Navy. Applications for permits to be examined must be made to Paul Morton, Secretary of the Navy, and must be accompanied by testimonials as to character, evidence of American citizenship, evidence of having received a degree in the civil engineering course of some professional institution of good repute, with a record of at least two years' practical experience as a civil engineer.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Oct.				
20	Sewer pipe	San Jose, Cal	S	10-13
22	Dredging	Washington, D. C	S	9-29
22	Conduit system	Wash., D. C	S	10- 6
•26	Tower and tank	Kiel, Wis	P. & S	10- 6
•27	Tunnel	Boston, Mass	P. & S	10-13
•28	Dredging	New London, Conn	S	10-13
29	Wharf, etc.	Washington, D. C	S	6-13
29	Pumping plant	Washington, D.C	S	10-13
Nov.				
•2	Dredging	Washington, D. C	S	10-13
•4	Harbor work	Chicago, Ill	S	10-13
12	Bridge, steel	Calgary, Alta	S	10-20
3	Coal handling pl't	N. Orl'ns, La	S	10-20
Dec.				
•1	Bridge	Manila, P. I	P., S. & B. S.	7-28

•Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Oct. 20. Lights, Newburg, O. .... Oct. 13
Oct. 21. Bond sale, New Albany, Miss .... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 13.
Oct. 25. Electric system, Burlington, Vt .... Oct. 6
Oct. 27. Gas plant, Covina, Cal .... Oct. 20
Oct. 31. Electric lighting, Leon, Mexico .... Oct. 6
Nov. 1. Electric power plant, Searcy, Ark .... Oct. 13
Nov. 1. Gas holder, Richmond, Va .... Oct. 20
Nov. 1. Electric lighting, Harrisburg, Pa .... Oct. 20
Nov. 3. Light franchise, Catlettsburg, Ky .... Oct. 20

BRIDGES.

Oct. 20. Bridges, Toledo, O .... Oct. 6
Oct. 20. Bridge, concrete, Wabash, Ind .... Oct. 13
Oct. 22. Bridge, Sacramento, Cal .... Oct. 20
Oct. 22. Bridges, Leavenworth, Kan .... Oct. 20
Oct. 24. Bridge abutments, Westmoreland, Kan .... Oct. 13
Oct. 24. Bridges, etc., Toledo, O .... Oct. 6
Oct. 24. Bridge, Cleveland, O .... Oct. 6
Oct. 25. Superstructure, New York, N. Y .... Oct. 13
Oct. 27. Superstructure, Zanesville, O .... Oct. 13
Oct. 27. Bridge, steel, Peru, Ind .... Oct. 6
Oct. 29. Bridge, Cincinnati, O .... Oct. 13
Oct. 30. Bridge, steel, Crookston, Minn .... Sept. 22
Nov. 1. Bridge, Baltimore, Md .... Oct. 13
Nov. 1. Bridge, iron, Towson, Md .... Oct. 20
Advertised, Eng. News, Oct. 20 and 27.
Nov. 4. Bridge, New Orleans, La .... Sept. 15
Advertised, Eng. News, Sept. 15 to Oct. 7.
Nov. 7. Bridges, Richmond, Ind .... Oct. 13
Nov. 7. Bridge, Noblesville, Ind .... Oct. 20
Nov. 9. Bridge, steel, Stockton, Cal .... Oct. 20
Nov. 9. Bridges, steel, Cleveland, O .... Oct. 20
Nov. 12. Bridge, Calgary, Alta .... Oct. 20
Advertised, Eng. News, Oct. 20 and 27.
Nov. 15. Bridges, steel, Monroe, La .... Oct. 20
Nov. 15. Bridges, Tipton, Ia .... Oct. 13
Nov. 15. Bridge, Winnipeg, Man .... Oct. 6
Nov. 16. Bridges, Fairbury, Neb .... Oct. 20
Dec. 1. Bridge superstructure, Manila, P. I .... July 28
Advertised, Eng. News, July 28 to Dec. 1.
Dec. 5. Bridge, Dillon, Mont .... Oct. 20

BUILDINGS.

Oct. 20. Brick school, Dayton, O .... Oct. 13
Oct. 22. Buildings, Jackson, Miss .... Oct. 13
Oct. 24. Post office, Hammond, Ind .... Sept. 22
Oct. 24. Quarters, San Francisco, Cal .... Oct. 6
Oct. 24. Museum, Ottawa, Ont .... Oct. 6
Oct. 24. Hospital bldg., Columbia, S. C .... Oct. 20
Oct. 24. School work, New York, N. Y .... Oct. 13
Oct. 25. Quarters, Governor's Island, N. Y .... Oct. 20
Oct. 26. Ferry house, Ellis Island, N. Y .... Oct. 20
Oct. 26. Post office, Rock Hill, S. C .... Sept. 22
Oct. 25. Court house, Huntington, W. Va .... Sept. 22
Advertised, Eng. News, Sept. 22 and 29.
Oct. 26. Steam heating, Pierre, S. Dak .... Oct. 6
Oct. 26. Almshouse bldgs, Washington, D. C .... Oct. 20
Advertised, Eng. News, Oct. 20.
Oct. 27. Post office, Greeneville, Tenn .... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. 27. Cut stone, Washington, D. C .... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. [illegible]
Oct. 28. Building, Glen Gardner, N. J .... Oct. 20
Oct. 29. Naval building, New York, N. Y .... Oct. 13
Nov. 1. School plans, etc., Birmingham, Ala .... Sept. 15
Nov. 1. Post office, Evanston, Ill .... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Nov. 2. Post office, Oak Park, Ill .... Oct. 6
Nov. 2. Ventilating apparatus, Washington, D. C .... Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Nov. 3. Electric wiring, Athens, Ga .... Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Nov. 7. Court house, Dothan, Ala .... Oct. 13
Nov. 7. Ventilating apparatus, Washington, D. C .... Sept. 15
Nov. 7. Post office, Lawrence, Kan .... Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Nov. 8. Hospital, Lancaster, O .... Oct. 20
Nov. 9. Post office, Flint, Mich .... Oct. 6
Nov. 10. Laboratory buildings, Washington, D. C .... Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 3.
Nov. 10. Removing buildings, St. Louis, Mo .... Oct. 20
Advertised, Eng. News, Oct. 20.
Nov. 14. Post office, Adrian, Mich .... Oct. 13
Nov. 14. City hall annex, New Orleans, La .... Oct. 20
Nov. 15. Steam heating, Kirksville, Mo .... Oct. 20
Nov. 17. Army building, Ft. Meade, S. Dak .... Oct. 20
Advertised, Eng. News, Oct. 20 to Nov. 10.
Nov. 17. Hospital buildings, Schenectady, N. Y .... Oct. 6
Nov. 21. Post office, Ottawa, Ill .... Oct. 20
Nov. 22. Post office, Georgetown, S. C .... Oct. 20

WATER SUPPLY AND IRRIGATION.

Oct. 21. Water-works, Greeley Center, Neb .... Oct. 13
Oct. 21. Water sterilizers, Philadelphia, Pa .... Oct. 20
Oct. 22. Water pipe, West Homestead, Pa .... Oct. 20
Oct. 22. Settling basins, etc., Omaha, Neb .... Oct. 13
Advertised, Eng. News, Oct. 13.
Oct. 22. Water system extens'n, Ft. Douglas, Utah .... Sept. 29
Oct. 24. Pumping station, Jackson, Mich .... Oct. 20
Oct. 25. Water system, Wittenberg, Wis .... Oct. 6
Oct. 26. Tower, tank, etc., Kiel, Wis .... Oct. 6
Advertised, Eng. News, Oct. 6.
Oct. 26. Laying water mains, Fargo, N. Dak .... Oct. 20
Oct. 26. Water main, New York, N. Y .... Oct. 20
Oct. 27. Pumps and motors, De Pere, Wis .... Oct. 20
Oct. 27. Water mains, etc., Lakeland, Fla .... Oct. 20
Advertised, Eng. News, Oct. 20.
Oct. 28. Water-works, Knoxville, Tenn .... Oct. 20
Advertised, Eng. News, Oct. 20 and 27.
Oct. 28. Water distributing system, Prescott, Ariz .... Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 27.
Oct. 29. Pumping engines, etc., Kansas City, Mo .... Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Oct. 29. Pumping plant, etc., Washington, D. C .... Oct. 13
Oct. 31. Lead pipe, etc., Victoria, B. C .... Sept. 29
Nov. 1. Water-works, etc., Summerside, P. E. I .... Aug. 25
Nov. 1. Water mains, North Milwaukee, Wis .... Oct. 20
Advertised, Eng. News, Oct. 20 and 27.
Nov. 7. Tank and tower, Waterman, Ill .... Oct. 20
Advertised, Eng. News, Oct. 20.
Nov. 9. Pumping machinery, New Orleans, La .... Sept. 1
Advertised, Eng. News, Sept. 1 to Nov. 10.
Nov. 17. Pumping engines, Chicago, Ill .... Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 17.
Nov. 23. Hydrants, New York, N. Y .... Sept. 29
No date. Well, Central Valley, N. Y .... Oct. 13
Advertised, Eng. News, Oct. 13.

SEWERAGE.

Oct. 20. Sewer pipe, etc., Washington, D. C .... Sept. 22
Advertised, Eng. News, Sept. 22 to Oct. 20.
Oct. 20. Sewer pipe, San Diego, Cal .... Oct. 6
Oct. 21. Drainage sewer, Decatur, Ind .... Oct. 20
Oct. 21. Sewer, Harrisburg, Pa .... Oct. 20
Oct. 22. Sewer, Ashtabula, O .... Oct. 13
Oct. 24. Sewer system, Rockyford, Colo .... Oct. 6
Oct. 24. Sewer, Montclair, N. J .... Oct. 20
Oct. 25. Storm water sewer, Dayton, O .... Oct. 20
Oct. 26. Sewer, Hoboken, N. J .... Oct. 20
Oct. 28. Sewer, Findlay, O .... Oct. 20
Nov. 1. Sewerage, Summerside, P. E. I .... Aug. 25
Nov. 14. Sewer pipe, Salem, Mass .... Oct. 20
Advertised, Eng. News, Oct. 20 and 27.
Dec. 2. Sewers, Omaha, Neb .... Oct. 13

STREETS AND ROADS.

Oct. 20. Paving, etc., Cincinnati, O .... Sept. 29
Oct. 20. Grading, Janesville, Wis .... Oct. 13
Oct. 20. Paving, Austin, Tex .... Oct. 13
Oct. 21. Paving, Dayton, O .... Oct. 13
Oct. 21. Grading, Omaha, Neb .... Oct. 20
Oct. 21. Grading, Oklahoma City, Okla .... Oct. 20
Oct. 22. Grading, Shelton, Wash .... Oct. 20
Oct. 24. Road, Harrisburg, Pa .... Oct. 13
Oct. 24. Sidewalks, Canton, O .... Oct. 13
Oct. 24. Paving, Atlantic City, N. J .... Oct. 13
Advertised, Eng. News, Oct. 13.
Oct. 24. Paving, Helena, Mont .... Oct. 6
Oct. 24. Macadamizing, Muncie, Ind .... Oct. 6
Oct. 24. Road, Williamsport, Pa .... Oct. 6
Oct. 24. Paving, vitrified brick, Lincoln, Neb .... Oct. 20
Oct. 24. Paving, etc., Cincinnati, O .... Oct. 20
Oct. 24. Paving, etc., Pittsburg, Pa .... Oct. 20
Oct. 24. Paving, asphalt, New York, N. Y .... Oct. 20
Oct. 25. Paving, Austin, Tex .... Oct. 20
Oct. 26. Paving, etc., Cincinnati, O .... Oct. 6
Oct. 26. Sidewalks, cement, Elkhart, Ind .... Oct. 13
Oct. 27. Paving, Shreveport, La .... Oct. 20
Oct. 28. Roads, etc., San Francisco, Cal .... Oct. 6
Nov. 1. Roads, Pomfret, Conn .... Oct. 20
Nov. 7. Paving, brick, Webb City, Mo .... Oct. 20
Nov. 7. Roads, English, Ind .... Oct. 20
Nov. 7. Paving, Augusta, Ga .... Oct. 20
Nov. 8. Grading, Washington, D. C .... Oct. 20
Nov. 10. Road, Durango, Colo .... Oct. 20
Nov. 12. Road, Bakersfield, Cal .... Oct. 20
Nov. 15. Road, gravel, Toms River, N. J .... Oct. 20
No date. Paving, brick, Morris, Ill .... July 21
Advertised, Eng. News, July 21 to Oct. 13.

MISCELLANEOUS CONTRACTS.

Oct. 20. Dump cars, cement, etc., Panama .... Sept. 22
Advertised, Eng. News, Sept. 22 to Oct. 20.
Oct. 20. Electric railway, Ithaca, N. Y .... Oct. 6
Advertised Eng. News, Oct. 6.
Oct. 20. Lumber and wire, New York, N. Y .... Oct. 6
Oct. 20. Elevator, boilers, New York, N. Y .... Oct. 13
Oct. 20. Undergr'nd conduits, etc., N. York, N. Y .... Oct. 13
Oct. 20. Night soil removal, New York, N. Y .... Oct. 13
Oct. 20. Coal tunnel, Wilkesbarre, Pa .... Oct. 13
Oct. 20. Timber jetty, New York, N. Y .... Oct. 13
Oct. 21. Railway construction, Prince Ed. Island .... Oct. 13

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

Oct. 21. Tower clock, Huntington, Ind............Oct. 6
Oct. 21. Riprap stone, Tompkinsville, N. Y........Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. Conduits, Washington, D. C..............Oct. 6
Oct. Railway construction, Brazil..............Aug. 25
Oct. Dredging, Washington, D. C..............Sept. 29
Oct. Protection wall, Toledo, O...............Oct. 20
Oct. Railway, Prince Edward Island Ry.......Oct. 20
Oct. Lamps, drills, etc., Washington, D. C..Oct. 13
Oct. Launch, New York, N. Y..................Oct. 6
Oct. Fire engine, fire hose, New York, N. Y...Oct. 20
Oct. Tunnel, Boston, Mass....................Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Oct. Dredging, New London, Conn............Oct. 13
Advertised, Eng. News, Oct. 13 to Nov. 3.
Oct. Boiler, Reading, Pa......................Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Oct. Electrical machinery, England............Oct. 20
Oct. Wharf, etc., Washington, D. C...........Oct. 13
Nov. 1. Lamps, hoisting engine, etc., Wash., D. C. Oct. 20
Nov. 2. Dredging, Washington, D. C...........Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Nov. 3. Boilers, etc., New York, N. Y...........Oct. 20
Nov. 4. Harbor work, Chicago, Ill...............Oct. 6
Advertised, Eng. News, Oct. 6 to Nov. 3.
Nov. 7. Pipe scow, Philadelphia, Pa...............Oct. 13
Advertised Engineering News, Oct. 13 to Nov. 10.
Nov. 7. Air compressor, Montgomery, Ala.........Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Nov. 8. Machine tools, Washington, D. C.........Oct. 13
Nov. 8. Electric blowers, wire, etc., Wash. D. C..Oct. 20
Nov. 9. Drainage and levee work, New Madrid, Mo. Oct. 20
Nov. 10. Docks, moles and forts, Chili.............Aug. 18
Nov. 14. Ditch, etc., Bloomfield, Mo................Oct. 6
Nov. 23. Telegraph material, Australia..............Oct. 6
Nov. 26. Steel vessel, Detroit, Mich.............Oct. 20
Nov. 30. Timber, drainage, New Orleans, La......Sept. 29
Advertised, Eng. News, Sept. 29 to Dec. 1.
Dec. 3. Coal handling plant, New Orleans, La....Oct. 20
Dec. 15. Battleship, Washington, D. C...........Sept. 29
Dec. 25. Coal unloading apparatus, Belgium......Oct. 20
Mar. 31. Electric railway, China ....Oct. 20
Advertised, Eng. News, Oct. 20 to Dec. 29.

RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—E. P. Ripley, Pres., in annual report, recommends that additional branches to this road be constructed in the near future. Also he recommends the construction of double track on main lines and purchase of additional equipment.

BESSEMER & LAKE ERIE.—Extension of this road from North Bessemer, Pa., to Turtle Creek is said to be under consideration. Turtle Creek would be made the northern terminal of the line and at this place would be located large freight yards. H. T. Porter, Greenville, Pa., is Ch. Engr.

COLORADO, TEXAS & MEXICO.—We are informed by F. C. Digby-Roberts, Abilene, Tex., that contracts for construction of this line have not yet been awarded. Col. Morris R. Locke, Abilene, may be addressed for further information.

CRIPPLE CREEK CENTRAL.—Under this title the Denver & Southwestern has reorganized. The new corporation will take over all the property of the old company. It will have a capitalization of $3,000,000. Henry M. Blackmer, of New York, is Pres.; R. E. Flinsch, vice-Pres., and John Gorlow, Secy. and Treas.

DALLAS, CLEBURNE & SOUTHWESTERN.—B. P. McDonald, Pres., Fort Scott, Kan., is reported as saying that this road is to be extended from Cleburne to Glenrose, Tex., and thence to Lampasas and other points southwest.

GURDON & FORT SMITH.—Contract for building this road from Gurdon to Fort Smith, Ark., has been awarded to the Dalhoff Construction Co., of Little Rock, Ark. This company has sublet five miles of the work to J. P. Hannon of St. Louis, Mo. Grading is said to have been begun.

MANITOU & PIKE'S PEAK.—C. W. Sells, Gen. Mgr. of this road, has announced that plans are completed for electrifying of the entire cog line. Cost of the equipment will be about $250,000. Mr. Sells also announces that proposed extension of the road into Cripple Creek, Colo., has been abandoned temporarily. He may be addressed at Manitou, Colo.

PRINCE EDWARD ISLAND RY.—Bids are asked until Oct. 24 by D. Pottinger, Gen. Mgr., at Moncton, N. B., for grading, track-laying, ballasting, buildings, etc., in the construction of a branch line of railway 6.38 miles long, to Montague Bridge, P. E. I.

SEABOARD AIR LINE.—W. W. Gwathmey, Jr., Ch. Engr., is quoted as saying that this company will construct a system of terminals near Hissboro River, Florida, if deep water is assured at Tampa; $300,000 would be expended.

NEW INCORPORATIONS AND CHARTERS.

AMADOR RY.—Del.—Company has incorporated with an authorized capital stock of $1,000,000 to construct, maintain and operate new railway systems outside the state of Delaware. It is reported that the company will build a railroad from Amador, Mont., up Cedar Creek, about nine miles, to copper mines of the Amador Consolidated Mining & Development Co. Incorporators: Robert M. Mahler, Joseph Sherlaw and M. A. Burns, Chicago; Wm. Surman, Carlinville, Ill., and Erasmus R. Waples, Wilmington, Del.

ARIZONA & COLORADO.—N. Mex.—This company has filed incorporation papers to build a north and south railroad in western New Mexico, with terminal at Durango Colo., and Clifton, Ariz. Capital, $5,000,000. The company has filed upon 20,000 acres of coal lands in western New Mexico. Headquarters will be at Tucson, Ariz. Road has been surveyed and will, with its branch lines, immediately be constructed, covering 650 miles in New Mexico A subsidiary corporation, the Arizona & Eastern Ry., 50 miles long, in New Mexico, and with headquarters at Lordsburg, has also filed incorporation papers. Capitalization of this road is $1,000,000. The Southern Pacific road is backing the project, according to press report.

CATLIN & NORTHERN.—Ill.—Incorporated to build a railroad from Catlin, on the Wabash, to Oakwood, on the Cleveland, Cincinnati, Chicago & St. Louis Ry. Capital stock, $2,500. Incorporators: L. E. Fischer, George T. Buckingham, W. V. Dysert, Robert Parks and George Fisher, all of Danville, Ill.

CENTRAL CALIFORNIA.—Cal.—This company has been incorporated to build a cut-off from Newark to San Mateo, about 15 miles. Right of way is stated to have been secured. The proposed road will run from Newark in a westerly direction to San Francisco Bay at Potraro Point, crossing the Bay and thence to San Mateo. Potraro Point is on Dumbarton Point across from San Mateo, and at this place it is said the Bay can be most favorably bridged with draws, as provided by Federal statutes, than at any other place. Company is incorporated for 50 years. Capital stock is $1,000,000, of which $15,000 has been subscribed. All of the stockholders are Southern Pacific officials and attorneys, including Capt. N. T. Smith, Treas.; William Hood, Ch. Engr.; J. E. Foulds, Forshay Walker and Frank Shay, attorneys under Chief Counsel W. F. Herrin.

GREEN BAY, OSHKOSH, MADISON & SOUTHWESTERN.—Wis.—Organized to build a steam railroad from Madison via Oshkosh to Green Bay. Capital stock, $250,000. W. K. Ridout, of Oshkosh, is said to be the Pres.

IRVINGTON RY.—N. J.—Incorporated to build a railroad from Elizabeth to Irvington, it is reported. T. E. Swain, of Camden, N. J., is an incorporator.

KENSINGTON & EASTERN.—Ill.—The Illinois Central is at back of this road that was incorporated to build a railroad from Kensington, Ill., to a point on the Illinois-Indiana state line opposite Hammond, Ind., on the Chicago, Lake Shore & South Bend. The road is to be built from the state line to Hammond, Ind., under the charter of the Indiana & Kensington. Capital stock, $5,000. Incorporators: J. C. Welling, Vice-Pres. of Ill. Cent.; R. C. Schuyler, C. S. Feirich, A. P. Humburg and S. F. Andrews, Gen. Atty. Ill. Cent., all of Chicago. The Indiana & Kensington has been incorporated with $5,000 capital to build from Hammond to Illinois Central tracks near Kensington. Same incorporators.

LAKE SUPERIOR & SOUTHEASTERN.—Wis.—Company has been chartered, with a capital stock of $25,000, to build from Superior to Marshfield, 100 miles, passing through the counties of Douglas, Washburn, Bayfield, Sawyer, Barron, Chippewa, Gates, Taylor, Clark, Marathon and Wood. Robert T. Merrill, George D. Van Dyke, William E. Carter, Carl Muskat and H. D. Van Dyke, all of Milwaukee, are the incorporators.

LYONS BELT.—Ill.—This company will build a railroad from Lyons to Proviso, Cook County. Capital stock, $50,000. Incorporators: Fred Schultz and F. C. Schultz, Lyons, Ill.; George Allan, Walter S. Joslyn and Frank F. Heck, Chicago.

NEW BERLIN & WINFIELD.—Pa.—Company has incorporated to build a railroad from Winfield to New Berlin, seven miles. I. C. Bird, of Shamokin, Pa., is Pres.

OAKLAND & MARYSVILLE.—Cal.—Company has been incorporated with $4,000,000 to build from tidewater in Oakland through Alameda, Contra Costa, Solano, Yolo and Sacramento counties to Sacramento, and thence through Placer, Sutter and Yuba counties to Marysville. Directors are said to be Frederick W. Zeile, John D. McKee, John Zeile, W. P. Cope and R. T. Hooper. F. W. Zeile is Pres. of the Mercantile Trust Co., of San Francisco and is heaviest stockholder.

ROCK LICK & WOLF CREEK VALLEY.—W. Va.—Chartered to build a railroad from the mouth of Rock Lick Creek to Wolf Creek Valley, where connection will be made with the Deepwater railroad. J. M. Richards, A. D. Smith, Jr., S. T. Carter and others, of Fayetteville, W. Va., are incorporators. Capital, $40,000.

ROGUE RIVER VALLEY.—Ore.—It is reported that a charter has been granted this company at Milford, Ore. The proposed route of the railroad is not stated. W. S. Barnum is said to be interested.

TENNESSEE, GEORGIA & SOUTH CAROLINA.—Ga.—Application has been made at Whitfield, Ga., for a charter to build a railroad from Clayton, in Rabun County, Ga., westward through Union, Fannin and Towns counties to Ducktown, Tenn.; thence via Varnell's Station, in Whitfield County; Ringgold, in Catossa County, and through Walker County to Chattanooga, Tenn. The road will pass through Clayton, Hiawassee, Young Harris, Blairville, Morgantown, Mineral Bluff, Varnell and Ringgold, Ga., and Ducktown and Chattanooga, Tenn. Capital stock, $3,000,000. Incorporators: W. B. Frink, J. D. Cameron, E. N. Frink and D. J. Haynes, of New York City; J. A. Jones, G. W. McAfee, E. N. Butt, Wm. M. Wilson, J. B. McKinney and Morrell Skinner, of Blue Ridge, Ga. Headquarters, Blue Ridge, Ga.

STREET AND ELECTRIC RAILWAYS.

AUGUSTA, ME.—W. B. Getchell, Ch. Engr. Waldo County Railway, writes us that a large percentage of right of way for proposed electric road has been secured. It will be 18 miles long, starting from Camden, passing through Lincolnville and northport and terminating at Belfast.

PROVIDENCE, R. I.—The contract for new electric railway from Newton Highlands, near Boston, to Rhode Island state line, which will be known as the Boston & Providence Electric Railway, has been awarded to James F. Shaw & Co., 8 Congress St., Boston, Mass. The Boston & Providence line is to be constructed over private land, as far as possible, and its general plan will be the same as the Boston & Worcester road. It is expected that the line will be completed in the spring. Est. cost, $3,000,000. About 32 miles of new track will be laid.

SYRACUSE, N. Y.—It is reported that the Syracuse Rapid Transit Co. has under consideration the extension of its line to South Bay.

PITTSBURG, PA.—It is reported that Pittsburg & Allegheny Valley Ry. Co. has awarded the contract for construction of road from Teechburg to Apollo, Pa., to McCann & Smith, Greensburg, Pa., at $700,000.

PRINCETON, W. VA.—The Mercer Electric Ry. Co., of Princeton, has been chartered to build an electric railroad from Bluefield to Athens, in the County of Mercer. Capital, $10,000. Incorporators: James Scott, W. C. Hedrick, J. E. T. Sentz, G. P. Damewood and T. H. Holt, of Princeton.

DALTON, GA.—The Tennessee, Georgia & South Carolina Railway has applied for a charter of incorporation, with $3,000,000 cap. stock. The incorporators are: W. B. Frink, J. D. Cameron, of New York City; J. A. Jones, G. W. McAfee, Wm. M. Wilson and Merrell Skinner, of Blue Ridge, Ga, and others. The object of the company is to build an electric railway from Clayton, in Rabun County, Ga., westward through Union, Fannin and Towns Counties to Ducktown, Tenn., thence through Waker County, Ga., and to Chattanooga. The road will include the following towns and cities: Clayton, Hiawassee, Young Harris, Blairsville, Morganton, Mineral Bluff, Varnell and Ringgold, Ga., and Ducktown and Chattanooga, Tenn.

BRAIDENTOWN, FLA.—The Manatee Light & Traction Co., John A. Graham, Pres., proposes to extend its lines to Oneco, in Manatee County, and to the Gulf of Mexico.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

OCALA, FLA.—The Florida Traction Co. has applied for a franchise to build an electric railway here. Robt. L. Martin and his associates are interested.

BIRMINGHAM, ALA.—The Birmingham Railway, Light & Power Co. will build an extension to Boyles, about five miles.

SUMMIT, MISS.—The Magnolia Electric Railway & Power Co. has applied for a charter. It has a capital of $250,000 and proposes to build an electric railway between Summit and Magnolia, Miss.

WOODVILLE, MISS.—The organization of the Woodville-Fort Adams Electric Railroad Co. has been completed. The line is to be 23 miles long and traverses one of the richest sections in Mississippi. Geo. W. Borde, of New Orleans, La., is Consult. Engr. The officers are: L. T. Ventres, President; W. H. Woods, Secretary; James M. Sessions, Treasurer.

JACKSON, MISS.—Frank Jones and S. T. Carnes, owners of the Jackson Electric Railway, Light & Power Co., are formulating plans for an extension of their street railway system in this city, and work will probably be commenced during the early part of January. The company also intends to build a line northward on North Gallatin to the Baptist Orphanage. The two extensions planned will represent a cost of about $60,000.

COLUMBUS, O.—The Columbus, New Albany & Johnstown Traction Co. has secured a six-mile right of way in Licking County for the extension of the road from Gahanna to Johnstown. It is probable that this extension will be built next spring.

TOLEDO, O.—The Toledo & Jackson Ry. Co. has retained The Roberts & Abbott Co., Cleveland, O., as engineers for their road to operate between Toledo, O., and Jackson, Mich.

LANSING, MICH.—The Roberts & Abbott Co., Electric Bldg., Cleveland, O., will have on file for the use of bidders on and after Oct. 17, plans and specifications for construction and equipment of Michigan & Indiana Traction Co., to operate between Battle Creek and Lansing, Mich.

INDIANAPOLIS, IND.—The Indianapolis, Newcastle & Winchester Traction Co. have applied to Board Public Works for a franchise to enter the city. The petition states that the company will build 140 miles of track before the road is completed. Francis M. Ingler, of Newcastle, is Pres.

HUNTINGTON, IND.—Promoters of the Portland, Montpelier, Warren & Huntington Traction Co. are planning for an extension northward from the city so as to obtain traction line connections into Chicago. The proposed extension will be via Goshen, Syracuse and other north Indiana cities. J. B. Kenner, of Huntington, is interested.

NEWCASTLE, IND.—The County Commissioners have granted Chas. N. Mikels a franchise for an electric line from the east line of Henry County, near Hagerstown, along the right of way of the Pan-Handle Railroad, to the edge of the corporation line of this city, a part of the proposed electric line from this city to Richmond.

GRAND RAPIDS, MICH.—The Grand Rapids & Kalamazoo Valley Railroad Co. has arranged for a bond issue of $1,000,000, which will be expended on the construction of its road, which will connect Grand Rapids with Kalamazoo.

BAY CITY, MICH.—The Detroit & Bay City Traction Co. is a new corporation with $1,000,000 cap. stock which displaces the Detroit, Pontiac, Lapeer & Northern Electric Railway. The officers are as follows: President, E. H. Whitcomb, Davenport, Ia.; Secretary, L. A. Rockwell, Chicago; General Manager, O. J. Price, Detroit. A new franchise for entering Bay City was asked for in the Council. The new company will proceed with the work of securing the right of way, which has been in progress since the change was recommended by the syndicate financing the enterprise.

WELLINGTON, KAN.—L. H. P. Northrup, the electric railroad promoter, was granted a 50-year franchise to operate an electric railway here. The franchise is almost the same as the ones granted to Mr. Northrup in Arkansas City, Winfield and Geuda Springs, and the intention is to make them all one line.

MUSCOGEE, IND. T.—The Muscogee Electric Traction Co. will build an electric railroad four miles in length.

COLFAX, WASH.—Contract for grading road bed for electric railroad from Colfax to Palouse was let to J. M. Bodine of Elberton. Directors say work will be rushed to completion. Franchise requires that road be completed within one year from granting of franchise. Granted last February.

COLUSA, CAL.—The Northern Electric Railway & Navigation Co. has been incorporated by E. J. Miller, W. H. Buster, E. B. Vann and others, with $3,000,000 cap. stock. The object of the company is to build electric railways and run steamboats in connection with them. The first work will be a road from Colusa to St. John.

MODESTO, CAL.—Capital has been subscribed and a route surveyed for a new electric trolley line from Modesto to McHenry's packing house, six miles distant from Modesto; thence on three miles to Riverbank to connect Riverbank with the new Santa Fe branch line now building to Oakdale.

SAN DIEGO, CAL.—Dr. D. Gochenaurer and others have called a meeting of business men to discuss the proposition of forming an association to underwrite half the bonds of an electric freight and passenger railroad from San Diego to Imperial, and to adopt plans for securing necessary aid and cooperation of the people. The plan also includes construction of an electric road to San Bernardino and the running of a line of steamers from here to connect with Tehuantepec Railroad in Mexico. It is proposed to capitalize for $6,000,000.

LIGHT, HEAT AND POWER PLANTS.

GRANVILLE, N. Y.—The Central Power Mfg. Co., recently incorporated in Albany, is said by Albany press reports to be negotiating for purchase of water privilege on Cossayuna Creek, near this place. The company will erect a power plant between Schenectady and Albany, to supply the current for new barge canal, and also to furnish power for manufacturing purposes. Charles R. Huntley is named as a director of the Central Co. He is the agent of the General Electric Co. at Buffalo.

SCHENCETADY, N. Y.—The Electrical Securities Co. has incorporated with a capital of $3,000,000 to manufacture and deal in electrical, gas, water and steam power machinery. Directors are W. C. Lane, Pliny Fisk, Wilbur C. Fisk and others, of New York; Edward C. Palmer, of Morristown, N. J.; Harry S. Babcock, Jr., of Flushing, L. I.; S. M. Hamill, H. W. Darling and E. R. Coffin, of Schenectady.

GLENWOOD LANDING (L. I.), N. Y.—Nassau Light, Heat & Power Co., of Mineola (L. I.), N. Y., probably will build an addition to electric light plant here or a gas plant to be operated in connection with the electric plant.

Gas plant would have a capacity large enough to supply many Nassau County towns now using electricity for lighting purposes.

HARRISBURG, PA.—Bids are asked until Nov. 1 by Board Commissioners of Public Grounds and Buildings for furnishing electric light and power from Dec. 1, 1904, to Nov. 30, 1905, inclusive, for new capitol building, present executive buildings, executive mansion, state arsenal, conservatory, capitol grounds, and temporary quarters, etc. J. M. Shumaker, Supt. It was announced last week that bids would be received until Nov. 15. Local advertisements differ in stating the date that bids will be opened.

RICHMOND, VA.—Bids are asked until 8 p. m., Nov. 1, for construction of a 4-lift gas holder of 2,000,000 cu. ft. capacity for Richmond City Gas Works. Robert W. Hunt & Co., 66 Broadway, New York, is Engr. Plans and specifications may be had on application to Mr. Hunt, upon payment of $10. W. P. Knowles, Supt.

HARTWELL, GA.—It is stated by Mayor W. Johnson that bids will soon be received for an electric light plant. Cost will be about $15,000.

THOMASVILLE, GA.—See under Sewerage.

BELAIR, MD.—It is reported that work probably will be commenced on the construction of the electric power plant in Susquehanna River by the Susquehanna Electric Co. B. Harry Welch, of Philadelphia, Pa., is Pres. Press reports state that plant may cost $9,000,000.

CHESTERTOWN, MD.—John D. Urie and Chas. S. Smith are interested in the construction of a gas plant. Cost, $28,000. The People's Gas & Supply Co. is the title of company recently incorporated to manufacture and supply gas to the town. Capital $20,000.

NEW ALBANY, MISS.—Bids probably will be received Nov. 15 for erection of light and water plant. Estimated cost, $19,000. Wm. F. and A. D. Wilcox, Engrs., of Jackson, are preparing plans and specifications. Bids for $10,000 of bonds for this work are advertised for in Engineering News to be received until Oct. 21. Plant will be operated by steam. Capacity will be about 310 2,000 c.-p. arc lights and 1,000 16 c.-p. incandescent.

JACKSON, TENN.—Jackson Light & Power Co. has incorporated, with capital of $25,000, to construct and operate an electric plant here. Incorporators are stated to be F. B. Fisher, I. B. Tirgrett, G. S. Baird, and others.

CHATTANOOGA, TENN.—Bids were to have been received on Oct. 18 for lighting streets of the city after Nov. 1.

CATLETTSBURG, KY.—Bids are asked until Nov. 3 for purchase of franchise granting right to light streets of this city for 10 years, from Jan. 1, 1905. Franchise will be sold at public outcry to highest bidder for cash in hand. John J. Montague, Special Comr.

LOUISA, KY.—Louisa Water Co., W. B. Cox, Mgr., proposes, according to reports, to install electric plant of a capacity of 500 lights.

STURGIS, KY.—Contract for a 20-year franchise for electric-light plant will be let. Address, for further particulars, Mark E. Eastin, Mayor.

TOLEDO, O.—Bids are asked until Nov. 2 for purchase of $100,000 of natural gas refunding bonds. R. G. Bacon, Cy. Audr.

COLUMBUS, O.—Bids are reported asked until Oct. 21 by the Trustees Sinking Fund for a purchase of $65,000 of electric light, $98,000 Scioto dam and reservoir, $200,000 sewage disposal work and $27,000 levee bonds. Martin A. Gemunder, Secy.

NEWARK, O.—J. C. Stewart, Supt. municipal electric light plant, writes that council has been asked for funds to change the present system to the series alternating system. Matter is now in hands of finance committee of council. City has at present 290 old type arc lamps. In a recent report to Board Public Works, Mr. Stewart recommended the purchase of a 250-KW., a. c. generator and the installation of series alternating current arc lamps. Estimated cost, $14,000.

TERRE HAUTE, IND.—Board of Public Works has rejected electric light bids submitted by Terre Haute Traction & Light Co. New bids will be advertised for soon.

MARION, IND.—Citizen's Heat & Light Co. has been granted franchise by council. Construction work on plant will soon be under way.

Muncie Electric Light Co. will erect an addition to its plant in North Walnut St. With equipment it will cost about $35,000.

KALAMAZOO, MICH.—The Kalamazoo Valley Electric Co. is reported to be making preparations to dam the Kalamazoo River at some point between Allegan and Otsego. Council has been asked to extend its franchise for a period of 30 years.

PONTIAC, MICH.—H. H. Seeley & Son, of Amy, have petitioned council for heat, light and power franchise.

CALUMET, MICH.—Gas plant is under consideration in town of Red Jacket. N. F. Kaiser is Village Clk.

UNION CITY, MICH.—City has an option on water power privilege owned by Fred. Olds. Price is set at $7,000.

GREENVILLE, ILL.—A. E. Dunn, of Greenville, has applied to Council for franchise to construct and maintain for 20 years an artificial gas plant. It would cost $25,000. Matter is before Council.

BRULE, WIS.—A company has been organized in Iron River to develop the water power of the Brule River, about 1½ miles from this village. It is planned to supply power to Ashland, Washburn, Superior and Duluth.

KELLOGG, IA.—City has voted to build light plant.

NEVADA, IA.—W. H. Harrison, of Toledo, and others, will build a $25,000 gas plant if granted a franchise.

JEFFERSON CITY, MO.—Jefferson City electric light plant is said to have been bought by W. N. Horner, of Chicago, who will enlarge and rebuild the plant.

KALISPELL, MONT.—The Montana Water Power & Electric Co. has been incorporated in Washington to generate power from the waters of Pend d'Oreille River, running out of Flathead lake, and generate electricity for the operation of a trolley line. Capital stock is $2,000,000. Incorporators are Jeremiah Miller, Pres.; S. E. and Geo. L. MacGibbon of Butte, and E. J. Kingsbury of Great Falls, Mont.

ALBUQUERQUE, N. MEX.—The "Journal" states that C. B. Hahaffey, Engr., of General Electric Co., with headquarters in Denver, has been in this city looking over the ground and discussing plans with the newly incorporated Electric Power Company for an immense plant to be erected north of American Lumber Co. mills. Cost, $75,000. It would generate between 1,500 and 2,000 HP. C. K. Durbin and W. S. Iliff are reported interested.

DALLAS, TEX.—Municipal lighting plant question is again being discussed.

QUINCY, CAL.—The Pacific Power Co., with headquarters in Minneapolis, Minn., will be incorporated, it is stated, to operate in Plumas County. It is proposed to transmit power to San Francisco, a distance of 200 miles. Capital, $1,000,000. Geo. E. Maxwell and Geo. P. Darling are said to be interested.

LOS ANGELES, CAL.—The Los Angeles Gas & Electric Co. will soon lay an 8-in. high pressure gas main to Long Beach. It will cost about $150,000. Walter C. Cline is the Pres.

COVINA, CAL.—Bids are asked until Oct. 27 by Covina Valley Gas Co. for the erection of a gas plant. Immediately after its completion the company will build an ice and cold storage plant.

PORTLAND, ORE.—J. J. Crofut, of Portland, who is interested in the Tucker Power Co., is said to have secured capital for erecting a plant at Tucker bridge, on Hood River.

SAN JOSE, CAL.—C. W. Quilty, Mgr. Tuolumne Electric Co., writes that contracts have been awarded as follows: Electric apparatus to Bullock Electric Co.; hydraulic machinery, Stillwell-Bierce & Smith-Vaile Co., Dayton, O. (succeeded by the Platt Iron Works Co.); pipe line to Shaw, Batcher & Co., of Sacramento. W. J. Ferry, of Sacramento, is in charge. Estimated cost of plant is $75,000. Noted Oct. 6.

TUCSON, ARIZ.—San Diego Realty & Benevolent Co. has been incorporated by J. J. O'Brien, Henderson Hayward and others. Capital stock, $250,000. Object of the company is to develop electric power plants, steam or electric, railroads, water and water power plants, pipe lines, etc.

AMERICAN FALLS, IDAHO.—The American Falls Electric Company, Ltd., has been incorporated by William Burke, John L. Burke and L. V. St. Clair, of this city, and R. H. Johnson and S. H. Hayes, of Boise. Capital, $1,000,000. It is said that pumps will be installed at the falls, the water raised 125 ft, and an area of 4,000 acres of land irrigated by means of canals and laterals. Company may construct an immense concrete dam below the falls, where 20,000 HP. will be generated. It will be 300 ft. high and 30 ft. in width.

CAMPBELLFORD, ONT.—Vote will be taken on proposition to raise $30,000 to install a new electric light plant and $6,500 for steam heating in the public and high schools here.

GLACE BAY, N. S.—Election was called for Oct. 15 to vote question of providing $15,000 for additional electric light machinery and $10,000 for building brick power house.

WESTMOUNT, QUE.—City will vote upon question of issuing $225,000 of bonds for installation of a garbage disposal plant and an electric light system.

CHARLOTTETOWN, P. E. I.—The De Lano Osborn Engineering Co., of Toronto, Ont., and Montreal, Que., will prepare plans and estimates for a municipal light and power plant. Question of municipal ownership, the company informs us, will be investigated before renewing contracts with local companies.

VANCOUVER, B. C.—Extensions of the British Columbia Electric Railway Co. to the plant of the Vancouver Gas Co. will be commenced soon. J. Buntzen, Mgr., is said to have cabled the head office for an appropriation of $35,000 for immediate improvement and extension of the gas system. Over 600 tons of various sizes of steel mains have been ordered.

BRIDGES.

BANGOR, ME.—We are informed that the City Council has voted to replace the two wooden spans of the Bangor-Bremer bridge with steel.

FALL RIVER, MASS.—A call for bids for construction of new Crab Pond bridge has been sent out. Geo. Grimes, Mayor. The bridge will cost about $40,000, and part of this will be paid by the railroad company, as it is included in the work of grade crossings abolition.

BOSTON, MASS.—The following bids were received Oct. 12 by Wm. Jackson, Cy. Engr., for steel superstructure of Atlantic Ave. bridge: Pennsylvania Steel Co., 70 Kilby St., City, $89,100; McClintic-Marshall Const. Co., 21 Park Row, New York, $94,450; Boston Bridge Works, 47 Winter St., City, $107,566; King Bridge Co., Cleveland, O., $109,880; Phoenix Bridge Co., Philadelphia, Pa., $110,274; Canton Bridge Co., Albany, N. Y., $115,300; New England Structural Co., City, $125,000; American Bridge Co., City, $129,950; Eastern Bridge Structural Co., Worcester, Mass., $130,000; H. P. Converse & Co., City, $136,000.

PITTSFIELD, MASS.—A decision has been reached in regard to the bridge to be constructed over Housatonic River in West St., and Arthur A. Fobes, Cy. Engr., will now hurry work on specifications. It is expected that work will be commenced within a few days. The bridge will have a 40-ft. roadway instead of one of 32 ft., as was originally contemplated, and a walk 7 ft. wide on each side. Cost, $8,000.

NEW YORK, N. Y.—Geo. E. Best, Bridge Comr., expects to let contracts for two anchorages of the Manhattan bridge some time this month. The property for the sites has been acquired and much of it has been cleared ready for work to begin. Est. cost, $1,200,000.

NEWCASTLE, PA.—Lawrence County Commissioners are receiving bids for constructing a concrete or stone bridge, 82 ft. long over Big Run.

TOWSON, MD.—Bids are asked by County Commissioners until Nov. 1 for construction of an iron bridge over Patapsco River. (Advertised, Engineering News.)

KINSTON, N. C.—The Kinston & Carolina R. R. Co. will erect an iron bridge on their line, 300 ft. in length, with a steel draw. Address Geo. F. Montgomery, Pres., 200 Lewis St., New York.

MONROE, LA.—Bids are asked until Nov. 15 for the erection of two steel bridges across Bayou Boeuf. C. H. Peevy, D. A. Beard, Jr., and M. Patton, Police Jury.

CLEVELAND, O.—Bids are asked by County Commissioners until Nov. 9 for construction of steel bridges, stone, concrete and concrete-steel masonry and excavating in accordance with form of contract and specifications to be furnished by Wm. H. Evers, C. E., County Surveyor. Julius C. Dorn, Clk.

HAMILTON, O.—A petition has been presented to County Commissioners asking for a larger bridge over canal at East High St.

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NOBLESVILLE, IND.—Bids are asked by C[illegible]y Commissioners until Nov. 7 for constructing a [illegible] truss bridge over Stoney Creek.

MUIR, MICH.—A special election will be [illegible] Nov. 8 to vote on the question of building a new br[illegible] across Maple River.

CHICAGO ILL.—Bids were received by Tr[illegible]e Sanitary District Oct. 12 for erecting superstru[illegible] of (1) Ninth St. bridge over extension of main drain[illegible] channel and for erecting superstructure of (2) 16th St. [illegible] over extension of main drainage channel. Three [illegible] bids in each case were as follows: Lafayette Engi[illegible]g Co., Lafayette, Ind., (1) $32,300, (2) $29,080; R[illegible]eld & Gallery, Chicago, Ill., (1) $32,350, (2) $29,1[illegible] [illegible]ckson & Corbett Bridge & Steel Works, Chicago, Ill[illegible] $33,135, (2) $30,066.

GREEN BAY, WIS.—Wiscons'n Bridge & Ir[illegible] Co., of Milwaukee, was awarded the contract, at $11,5[illegible] for constructing a steel draw bridge over East River, on Webster Ave.

CLEVELAND, WIS.—Petitions are being cir[illegible] in towns of Cleveland and Arthur to have a bri[illegible] constructed across Chippewa River at Halcombe. Cost [illegible]. The proposition will probably be voted upon be[illegible] November meeting of County Board.

TOPEKA, KAN.—County Commissioners will [illegible]build Sardou Ave. bridge across Kansas River at on[illegible]. It is reported that bids are now being received.

LEAVENWORTH, KAN.—Bids are asked by [illegible] W. Niehaus, County Clk., until 12 m., Oct. 22 for co[illegible]ructing three bridges. Plans and specifications on fi[illegible] in office of County Surveyor.

TOPEKA, KAN.—The people will, at the gener[illegible] election Nov. 8, vote on the question of issuing bond[illegible] to rebuild north approach to Melan bridge across [illegible]ansas River.

The Street Railway Co. has let contract for building its double-track bridge across Kansas River to the Leavenworth Bridge Co. for $60,000. Work will begin about Nov. 1.

FAIRBURY, NEB.—Bids are asked by F. A. Houston, County Clk., until Nov. 16 for the erection of wooden bridges and reparation of such wooden and iron bridges for the year 1905.

DILLON, MONT.—Bids are asked by John S. Baker, County Clk., until Dec. 5 for constructing a two-span bridge, each span 65 ft. long, across Big Hole River.

THOMAS, OKLA.—The Frisco bridge, five miles from here, is reported destroyed by flood. The structure was 4,700 ft. long.

DENVER, COLO.—The Denver & Rio Grande has completed plans for a steel girder bridge 100 ft. long over the arroyo near Eden. W. A. Morey is Bridge Engr., City.

SACRAMENTO, CAL.—Bids are asked by Board of Supervisors until Oct. 22, 11 a. m., for the repair of a combination truss bridge. Wm. B. Hamilton, County Clk.

SAN FRANCISCO, CAL.—It is reported that the Southern Pacific R. R. Co. will erect a steel and concrete bridge that will span Carquinez straits between Port Costa and Benicia. Wm. Hood is Ch. Engr., City. Cost, $3,000,000.

SANTA CRUZ, CAL.—Pacific Construction Co. was the lowest bidder, at $10,896, for a bridge over Pajaro River.

OROVILLE, CAL.—The San Francisco Bridge Co. has been awarded the contract for construction of span of the bridge over Feather River. Contract price, $37,980.

STOCKTON, CAL.—Bids are asked by Board of Supervisors until Nov. 9 for the erection of steel span bridge over Rock Creek. Eugene D. Graham, Clk.

PRINCE EDWARD ISLAND, CAN.—Quite an engineering difficulty is presented in the proposed new draw bridge over the Morell River, in overcoming the bottomless depth of mud in bed of river. Plans have been drawn by W. B. McKenzie, Ch. Engr., Intercolonial Railroad, Moncton, N. B., and laid before the Provincial Government but doubt is expressed of this utility, and that if the piles can be made sufficiently firm to withstand the pressure of the tides on the soft moving mud and of the ice also, in winter, so that a pile structure may have to be abandoned and caisson piers substituted. This will involve an expense which the government may not feel able to meet. Present structure is a floating bridge.

LISTOWEL, ONT.—The Council intends building a new bridge at Bismarck St. next spring, with steel girders and concrete covering.

CALGARY, ALTA.—Bids are asked by Board Public Works until Nov. 12 for constructing, delivering and erecting a 180-ft. steel truss bridge on foundations prepared by the city. Thos. Underwood, Chn.; F. W. Tho[illegible]d, Cy. Engr. Specifications may be seen at the office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

BUILDINGS.

AUGUSTA, ME.—James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., will prepare plans for extension of the post office here. Estimated cost, $125,000.

STAMFORD, CONN.—Nathan C. Mellen, 27 West 30th St., New York, will prepare plans for town hall. Cost, about $150,000. We are informed that it will be several months before bids will be asked.

HARTFORD, CONN.—Business men will incorporate a stock company to erect a $100,000 building. Maj. Chas. B. Andrus is reported interested. Bayley & Goodrich will be the Archs.

NEW HAVEN, CONN.—Board of Education has matter of appropriations for new schools and equipment under consideration. Webster district school will cost $70,000.

ORANGE, N. J.—$125,000 of bonds has been ordered issued for school purposes.

GLEN GARDNER, N. J.—Bids are asked until Oct. 28 by Board of Managers of the N. J. Sanitarium for Tuberculous Diseases, at 197 Market St., Newark, for furnishing material and erecting a building at Glen Gardner. Work will include structural steel and iron work, carpenter and roofing work, plumbing, heating, electric work, etc. Appropriation, $200,000. W. S. Jones, Ch. Bldg. Com. Geo. B. Post & Sons, 33 East 17th St., New York City, are Archs.

WATERTOWN, N. Y.—Joe Spratt Post, G. A. R., may erect a $100,000 memorial building. Gen. Bradley Winslow, L. C. Greenleaf and John H. Parham are reported interested.

ELLIS ISLAND, N. Y.—Bids are asked until Oct. 26, 2.30 p. m., for widening ferry house at island. Bids also are asked until Oct. 31 for making alteration to main building. William Williams, Comr. Immigration.

NEW YORK, N. Y.—John T. Brady & Co., 6 East 42d St., were awarded contract for library at 66 Leroy St., at about $65,000, and E. E. Paul, 289 Fourth Ave., was awarded contract for library at 200 West 23d St., at about $60,000, for New York Public Library.

Board Directors, Hebrew Infant Asylum, has announced that three buildings, to cost $125,000, will be erected at King's Bridge Road, Aqueduct Ave. and Tee Taw Ave. Funds for this purpose are being raised.

Franklin F. Green, 11 East 59th St., Arch., is reported to have prepared plans for a parochial school for Church of St. Augustine. Rev. Father T. F. Gregg, rector, 1183 Franklin Ave. Brick, stone, granite and concrete, structural iron, fireproofing, slag roof, copper work, iron stairs, electric wiring, steam heat, etc. Cost, about $125,000.

T. H. Poole & Co., 13 West 30th St., will receive bids on a school and hall building for Edw. P. Southwell, of 234 East 29th St. Brick and concrete, stone trimming, structural steel and iron, fireproofing, gravel and asphalt roofing, electric wiring and steam heat.

Geo. F. Pelham, 503 Fifth Ave., has prepared plans for two flat buildings, with stores, for Max Weinstein, contractor, at 151 East 81st St. Brick and concrete, structural steel and iron, fireproofing, tin roofs, dumb waiters, electric and gas fixtures and steam heat. Reported cost, $350,000.

NEW YORK, N. Y.—Plans are being prepared by Schwartz & Gross, of 35 West 21st St., for a 6-story apartment house, 100 × 126 ft., to be built at Morningside Ave. and 115th St. for Paterno Bros., Inc., of 557 West 183d St. Estimated cost, $150,000.

The Wyoming Apartment Co. has been incorporated to take over holdings of Potter & Bro. at Seventh Ave. and 55th St, and erect a 12-story apartment house on this site. Plot is 125 × 150 ft. Work upon this building will be begun early next spring. Cost, about $900,000.

Brody, Adler & Koch, 132 Nassau St., will receive bids for a 9-story and basement loft building, 42 × 85 ft., that they will erect at 40-42 East 19th St. Plans by Sass & Smallheiser, 23 Park Row. Fireproof construction, front of Indiana limestone, Harvard brick. One passenger and one freight elevator, steam heat, stand pipes, and probably electric lights. Cost estimated at $130,000. Contracts will be let separately.

WILLARD, N. Y.—Bids are asked by T. E. McGarr, Secy. State Comn. Lunacy, Albany, N. Y., until Nov. 2 for plumbing improvements, detached building, No. 2, cold air inlets and heater casings for present stack, north and south wings of main building at Willard.

ITHACA, N. Y.—We are informed that matter of building Tompkins County Court House and Ithaca City Hall will not be definitely arranged for until after election, when question of issuing bonds will be voted upon.

GOVERNOR'S ISLAND, N. Y.—Bids are asked until Oct. 25, 11 a. m., for constructing two single sets officers' quarters, Governor's Island. William E. Horton, Construct. Q. M.

ATLANTIC CITY, N. J.—Bids have been invited by H. A. Stout, Arch., Law Bldg., for an automobile station for Currie Co. Brick and steel, fireproof, two stories, 60 × 150 ft. Reported that boilers, engines and dynamos will be required.

PITTSBURG, PA.—T. A. Milby, of Milby & Reed, with others, is reported interested in project to construct 60 dwelling houses at West Liberty. Dwellings to be of solid brick, eight rooms, hard wood mantels, open plumbing, gas and electric fixtures, etc. Cost, $3,500 each.

W. A. Thomas, Arch., City, has plans for a 4-story apartment house in Dithridge St. Cost, $50,000.

McKEESPORT, PA.—Plans for large 5-story business block, 120 × 140 ft., have been drawn by Dean & Stophlet, Archs., Pittsburg. Cost, $125,000. Building will be divided into offices, storerooms and apartments.

PITTSBURG, PA.—Contract for erection of Fort Pitt Hotel, Penn Ave. and Tenth St., was awarded to A. & S. Wilson Co., Pittsburg. Five stories, fireproof. Estimated cost, $250,000.

Reported that City Council will be asked to appropriate $50,000 for erection of hospital at the city farm at Marshalsea. Dr. E. R. Waters, Chn. of Council Committee on Charities.

RIDGEWAY, PA.—Contract for erection of Y. M. C. A. building awarded to Hyde, Murphy & Co., Ridgeway, at $40,000.

PHILADELPHIA, PA.—Hale & Morse, Archs., have been commissioned to prepare plans for a 6-story bank and office building to be erected at 52d and Market Sts., and for a 6-story apartment house to be built at 52d and Ludlow Sts. These structures will be erected by the Fifty-second Street Realty Co.

Niels Buck, Arch., 135 La Salle St., Chicago, is reported to be preparing plans for several 3-story apartments that will be erected at intersection of North Clark, North Halsted and Wellington Sts. for Fred Schroeder. Steam heat will be supplied from a common plant. Cost is estimated at $150,000.

A. L. Hecht, of Gilbert, Weeks & Co., will, it is reported, build an apartment house on 50th St. near Washington Park Pl. Plans by Turnock & Ohrenstein, Chicago Opera House. Building will be three stories high, 150 × 135 ft. Cost, $110,000.

Thomas McCall, 167 Dearborn St., Chicago, is architect for an apartment house to be erected at 66th St. from Madison to Monroe Aves., for Jos. Cormack. Three stories high, 150 × 100 ft. Cost, $100,000.

WASHINGTON, D. C.—Bernard R. Green, Supt. Construction, informs us that contracts for furnishing cut granite for front and court walls of new National Museum were awarded as follows: For basement granite, to Milford Pink Granite Co., Milford, Mass., the lowest bidder, at $150,550; for first and second stories. Thompson-Starrett Co., New York City, for Bethel granite, at $362,-449; for attic story, to the North Carolina Granite Corporation, Philadelphia, Pa., the lowest bidder for most suitable colored stone to be superimposed upon Bethel stone of the first and second stories, at $107,645; for court walls, to Frank F. Graham, of Baltimore, Md., the lowest bidder, at $116,000. Full list of bids received was published in issue of Oct. 13.

Bids are asked until Oct. 26 for constructing the Municipal Almshouse Buildings in the subdivision of Bellevue and Blue Plains Henry B. F. Macfarland, Henry L. West, John Biddle, Comrs. (Advertised, Engineering News.)

BALTIMORE, MD.—Church of Messiah, Rev. Peregrine Wroth, rector, 215 East Preston St., has awarded contract to John Cowan, builder, 106 West Madison St., for construction of church building at Gay and Fayette Sts. Plans by Charles E. Cassell & Son, Archs., 411 North Charles St. Cost, $50,000.

JAMESTOWN, VA.—Parker & Thomas, 429 North Calvert St., Baltimore, Md., are engaged in making plans for the proposed Jamestown Exposition, it is reported. Plans for the landscape gardening were made by Manning Bros. of Boston. Plans call for a total expenditure of over $1,000,000.

RALEIGH, N. C.—Masonic Temple Construction Co. is having plans prepared by Chas. K. Bryant of Charlotte, N. C., for the erection of 6-story Masonic temple, 60 × 88 ft., of semi-fireproof construction; $100,000 is now available. Grand Master W. S. Liddell, of Charlotte, is in charge.

COLUMBIA, S. C.—Bids are asked for erection of the Columbia Hospital building until Oct. 24. Shand & Lafaye, Archs.

GEORGETOWN, S. C.—Bids are asked by James Knox Taylor, Supervising Arch., Treas. Dept., Washington, D. C., until Nov. 22 for the construction complete of the U. S. Post Office and Custom House. (Advertised, Engineering News.)

MOBILE, ALA.—Mobile County will vote Nov. 8 on issuance of $200,000 of bonds for the erection of jail, improving property at Royal and Church Sts. for public offices and improving and enlarging the poor asylum. Address W. H. Holcombe, Pres. Bd. of Revenue and Road Commissioners.

HATTIESBURG, MISS.—McGee & Garber, of Jackson, Miss., have been awarded contract for building a court house here. Cost, $46,062.

GREENWOOD, MISS.—Board of Supervisors of Leflore County has adopted plans and specifications by R. H. Hunt, Chattanooga, Tenn., for the erection of proposed $68,000 courthouse.

NEW ORLEANS, LA.—Bids are asked until Nov. 14 for construction of city hall annex building. It will be erected at Carondelet and Lafayette Sts. V. Tujague, Comptroller.

NEW ORLEANS, LA.—Five bids were received for construction of a new storehouse at New Orleans Naval Station. Lowest bidder was the Penn Bridge Co. of Washington, D. C., at $97,789; $100,000 was appropriated by Congress.

JOHNSON CITY, TENN.—John G. Unkefer, of this city, was awarded the entire contract, at $59,185, for the construction of a memorial hall at the Mountain Branch, N. H. D. V. S., near Johnson City. Moses Harris is Gen. Treas., National Home for Disabled Volunteer Soldiers, 346 Broadway, New York, N. Y. J. H. Friedlander, Arch., 244 Fifth Ave., New York.

LANCASTER, O.—Bids are asked until Nov. 8 by Board Trustees of Boys' Industrial School for construction of hospital building. Richards, McCarty & Bulford, Columbus, O., are Archs. C. P. Adams, Secy.

PORTSMOUTH, O.—Bids are asked by Board of Directors of the Masonic Temple Co., 104 West Second St., until Oct. 20 for the construction of Masonic temple. Six stories, 82 × 112 ft., brick and terra cotta, plumbing and steam heating plant. Cost, $100,000. Edgar F. Draper, Pres.; Richards, McCarty & Bulford, Archs., Ruggery Bldg., Columbus, O.

CINCINNATI, O.—Samuel H. Hannaford & Son, Sixth and Vine Sts., will receive bids about Nov. 1 for a 3-story memorial building, 90 × 100 ft., for the Ohio Soldiers & Sailors' Memorial Buildinb Committee. Granite or freestone, steam heat, open plumbing, electric light, etc. Cost, $200,000.

MASSILLON, O.—Massilton Lodge, B. F. O. Elks, No. 441, will erect a $50,000 business block if necessary funds are raised. F. A. Vogt is Exalted Ruler.

COLUMBUS, O.—In item published in this column last week, it was stated that bids were received Oct. 1 by Board of Agriculture for two machinery buildings and one poultry building at the state fair grounds, and that low bids were: C. P. Wolf, Columbus, poultry building $9,500; C. G. Blase, Columbus, machinery hall, $18,369, one poultry and one machinery building, $29,361, two machinery buildings, $41,000, all buildings, $46,975. The correct name of lowest bidder was Charles J. Close, Gen. Contractor, 404 Harrison Bldg., at prices noted above.

DETROIT, MICH.—Architects are preparing new plans for remodeling the city hall, preparatory to securing new bids. Lowest bid received on Sept. 28 was that of Paul Wenzel, at $149,650.

SYCAMORE, ILL.—Bids are asked by Board Directors, Sycamore Public Library until 2 p. m., Oct. 31 (readvertisement), for erecting a library building. Plans, etc., prepared by Paul O. Moratz, Arch. Flora J. Dow, Secy.

OTTAWA, ILL.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until Nov. 21 for construction complete of post office here.

CHICAGO, ILL.—It is planned to erect a central Methodist Church in this city. The cost would be at least $500,000. Bishop Wm. H. McDowell is interested. Judge O. H. Horton is Chn. of Laymen's Association Com.

CHICAGO, ILL.—Bids are asked by Board Education until 12 m., Oct. 21, for an addition to the Wm. Penn Nixon school at 1200 North 42d Ave. To be of fireproof construction, three stories and basement, 134 × 111½ ft. Separate figures will be received on the following lines: Structural iron, masonry, carpentry, composition roofing, heating, plumbing, plastering, painting, hardware, ventilating, temperature regulating, glass, concrete, asphalt flooring, tile flooring, shades, sewers, electric wiring, iron stairs, window guards, telephone and bells, cut stone. Cost, about $85,000.

Mrs. Charles Netcher has announced that she will erect a 14-story business block on State St., near Madison St. Additions will be built from time to time. Estimated cost is $2,500,000.

N. Hallstrom, Arch., 929 Roscoe St., has plans for a flat building, to be erected at Wellington St. and Evanston Ave. for A. Harnstrom, 125 La Salle St. Three stories high, built of brick and stone, steam heat, combination light fixtures, etc. Cost, $60,000. Bids will be received by owner, it is reported.

Holabird & Roche have plans for the 16-story addition to the Marquette Building. Cost, $600,000.

It is reported that syndicate, headed by Otto Young, will erect a 22-story hotel that will cost $10,000,000. Hotel will occupy site on Michigan Ave. from Hubbard to Eldredge Places, 400x171 ft. Lawrence Hayworth is Mr. Young's representative.

FOND DU LAC, WIS.—The following are reported to be the bids opened on Oct. 12 at Washington, D. C., for the construction of the Post Office, including plumbing, heating apparatus and electric wiring, at Fond du Lac: Peter Andrew, Fond du Lac, $67,623; Matthew Davis, Fond du Lac, $66,378; C. W. Gindele Co., Chicago, Ill., $56,250, General Construction Co., Milwaukee, $66,779; Winchester & Cullen, Janesville, $60,054; Northern Construction Co., Milwaukee, $60,646, and W. J. McAlpine, Dixon, Ill., $55,500.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

COVINGTON, IA.—Mulberry Grove Hotel Co. has been incorporated, with $100,000 capital to erect a hotel on the Bogue Falaya River. Thomas Sully, 1104 Hennen Building, New Orleans, is Arch.

DAVENPORT, IA.—School Board has granted contract to H. B. Walter of Danville, Ill., for the erection of school building, at $198,350. Building will cost $250,000.

FORT MEADE, S. DAK.—Bids are asked until Nov. 17 for the construction, heating, plumbing and electric wiring of one double barrack, two sets of field offices quarters, one double set captains quarters, one double set lieutenants quarters, one double set N. C. O. quarters, all to be brick, and for constructing one frame stable. Maj. Geo. K. Hunter, Construction Q. M. (Advertised, Engineering News.)

MUSKOGEE, IND. T.—Foundation has been laid and bids are being asked for construction of hotel for the Muskogee Hotel Co. Cost, about $75,000. F. R. Letcher is Secy. of company.

OMAHA, NEB.—John Lateuser has plans for new 7-story stone and steel building for J. L. Branders & Sons Co. Probable cost, $500,000.

KIRKSVILLE, MO.—Bids are asked by Treasury Dept., Washington, D. C., until Nov. 15 for installing low-pressure steam heating apparatus in post office here. James Knox Taylor, Supervising Architect.

ST. LOUIS, MO.—Bids are asked by the Committee on Salvage and Sale of Buildings until Nov. 10 for the wrecking and removal of certain exhibit buildings. Isaac S. Taylor, Dir. of Wks. (Advertised, Engineering News.)

LAWTON, OKLA.—Bids were received by Engineer, U. S. Geological Survey, at Lawton, Oct. 10 for the construction of various buildings, the lowest bidders being as follows: Court house and jail building at Hobart, court house, except heating, Thos. O'Keefe & Co., Oklahoma City, Okla., $26,768; jail, except heating, L. Crosby & Son, Kansas City, $8,817; court house, alternative bid, J. B. Betts, Topeka, Kan., $24,1[illegible]3; same party bid $10,320 on alternative bid on jail; heating plant, Barnes Bros., Marion, Ind., $2,200. Court house and jail building at Lawton—Court house, except heating, Records Contract Co., Lawton, Okla., $25,003; jail, except heating, Records Contract Co., $11,197; court house, alternative bid; also jail, alternative bid, L. Crosby & Son, Kansas City, $21,997 and $10,382; heating plant, F. B. Hannan & Co., Lawton, Okla., $1,850. Court house and jail building at Anadarko—Court house, except heating, Thos. O'Keefe & Co., Oklahoma City, Okla., $25,301; jail, except heating, L. Crosby & Son, Kansas City, $10,331; court house, alternative bid, Barnes Bros., Marion, Ind., $23,000; jail, alternative bid, L. Crosby & Son, $9,181; heating plant, Thos. O'Keefe & Co., $1,738. Eight-room school building at Lawton—School building, except heating, Johnson & Sherman, Oklahoma City, $14,000; heating plant, Graeber Bros., Lawrence, Kan., $1,200. Eight-room school building at Hobart. School building, except heating, Johnson & Sherman, Oklahoma City, $15,500; heating plant, Kean & Boogher, Hobart, Okla., $2,797. Four-room school building at Lawton—School building, except heating, Johnson & Sherman, Oklahoma City, $7,-000; heating plant, F. B. Hannan & Co., Lawton, $900.

CALIENTE, NEV.—Senator Wm. A. Clark, of New York City, has purchased the Vegas Ranch in Lincoln County, and will erect a $300,000 hotel and sanitarium, it is reported.

WATER SUPPLY AND IRRIGATION.

SANDWICH, N. H.—Action was taken Oct. 12 to form a water precinct here.

FORT ETHAN ALLEN, VT.—Following bids were received Oct. 11 for constructing steel tank and trestle here: The G. S. Blodgett Co., Burlington, Vt., $11,723; West Va. Bridge & Construction Co., Wheeling, W. Va., $11,968; Horace E. Horton, Chicago Bridge & Iron Works, 105th and Throop Sts., Chicago, Ill., $12,000, alternate, $10,400; The Cooper, Wigand, Cooke Co., 152 W. 34th St., New York, $10,960; Penn. Bridge Co., Beaver Falls, Pa., $10,985; Thames Construction Co., New London, Conn., $14,987.

ATTLEBORO, MASS.—State Board of Health has approved plans of water commissioners for establishing new source to supply center of the town. A recent town meeting appropriated $115,000 for the work. George H. Snell is Supt. W.-W.

MELROSE, MASS.—Council has passed order authorizing city treasurer to borrow $10,000 for water-works purposes.

AGAWAM, MASS.—Special town meeting may be held to consider securing water supply from West Springfield. J. A. Roy is on Committee.

SOUTH NORWALK, CONN.—It is expected that plans will be completed shortly for the new $60,000 filter plant which this city proposes to erect.

CANAJOHARIE, N. Y.—Board of Trade is moving for municipal water-works. Willis Bullock is Mayor.

FORESTPORT, N. Y.—Village voted Oct. 8 to issue $22,000 of bonds for installing water-works.

KENMORE, N. Y.—Kenmore Improvement Association is agitating for metering of village water.

NEW YORK, N. Y.—Bids were received Oct. 12 by John T. Oakley, Comr., Water Supply, Gas and Electricity, for furnishing, delivering and laying high pressure fire service mains. The work was divided into three sections and the bids received on these were as follows, itemized bids for Section 1 being given under Contract Prices: Wm. Bradley, 86th St. and Broadway, New York, Sec. 1, $218,165; Sec. 2, $317,714; Sec. 3, $262,057. Borough Contracting Co., 189 Montague St., Brooklyn, Sec. 1, $209,752; Sec. 2, $307,039; Sec. 3, $337,355. United Engineering & Contracting Co., 21 Park Row, New York, Sec. 1, $276,342; Sec. 2, $385,347; Sec. 3, $253,687. M. J. Dady made an informal bid on all of the work.

NEW YORK, N. Y.—Bids are asked by Commissioner Water Supply, Gas and Electricity, 13 Park Row, until 2 p. m., Oct. 26, for furnishing, delivering and laying 20-in. water-main and appurtenances on 24th Ave., from 86th St. to Cropsey Ave; along Cropsey and Harway Aves. and West 18th St. across Coney Island Creek, through West 17th St. to Neptune Ave. and 16-in. main from Neptune Ave. to Surf Ave. along West 17th St. John T. Oakley, Comr.

Riter-Conley Mfg. Co., Pittsburg, Pa., is stated to have secured contract approximating $500,000 for 4,000 tons riveted steel pipe for Borough of Richmond. Contract includes laying.

OXFORD, N. Y.—Village has voted unfavorably on proposition to enlarge water-works at a cost of $13,500.

UNION SPRINGS, N. Y.—We are informed that citizens will not vote to put in municipal system of water-works. It is possible that some company may install a system. Oscar J. Spencer is Chn. Water Com.

NEW YORK, N. Y.—Joseph Gollo, Pelham Ave. Bridge, New York, was low bidder, at about $96,000, Oct. 19, for furnishing and laying water mains in Boroughs of Manhattan and the Bronx.

ATLANTIC CITY, N. J.—Contract for furnishing water pipe and special castings for this city has been let to U. S. Cast-Iron Pipe & Foundry Co., Philadelphia, Pa. Bids were opened Oct. 11.

BORDENTOWN, N. J.—Bids were received by Board Water Commissioners Oct. 15 for constructing water-works system for this place. Three lowest bidders were: Hugh J. Reilly, Jr., New York, $66,157; Hawman Bros., Reading, Pa., $72,101; J. H. Louchheim, Philadelphia, Pa., $78,709. Itemized bids will be given under Contract Prices, Oct. 27.

CAMDEN, N. J.—R. D. Wood & Co. was only bidder Oct. 11 for furnishing pipe for submerged pipe line across Coopers Creek. No bids were received for laying the pipe. L. E. Farnham is Cy. Engr.

JERSEY CITY, N. J.—Board of Finance has set aside $22,000 for new water main to be laid in the Hudson City section. Street and Water Board will ask bids for the work.

MOORESTOWN, N. J.—Water company is stated to have three plans under advisement for bettering present water supply.

PITTSBURG, PA.—Chapin & Knowles, Consult. Engrs., Frick Bldg., Pittsburg, are stated to be ready for bids on steam pumping station of 3,000,000 gallons daily capacity, to be erected for Beaver Valley Water Co., New Brighton, Pa.

McKEESPORT, PA.—Referring to fact that Water Commissioners have asked $5,000 appropriation for additional wells, we are informed that it is proposed to put down ten new wells. At present the city has 16 wells. T. H. Verner, Supt. W.-W., is official in charge.

PHILADELPHIA, PA.—Bids are asked by Lt.-Col. J. W. Pope, Deputy Q. M. Gen., North American Bldg., until 11 a. m., Oct. 21 for furnishing 100 water sterilizers.

Blackwood Water Co., of Philadelphia, has been chartered; capital is $50,000. Company proposes to acquire Black Creek steam on the southern side of the Sharp Mountain, from Blackwood, and intends to construct a plant to supply Blackwood colliery and the residents in that vicinity with water. The charter members are prominent Lehigh Valley Coal Co. officials.

WEST HOMESTEAD, PA.—Borough will receive bids until Oct. 22 for 4,800 ft., 6-in. cast iron pipe, fire plugs and three gate valves. Chas. P. Laird, Chn. St. Com., 310 Walnut St., West Homestead. (Post Office, Homestead, Pa.)

BERLIN, MD.—Mayor Orlando Harrison writes that question of water-works will be decided at election to be held Oct. 20.

ANNAPOLIS, MD.—Shannahan Artesian Well Co. has been awarded contract for $5,100 for sinking 1,000 ft. deep, 8-in. well, at the Naval Academy.

BALTIMORE, MD.—Resolution has been before Council directing certain city officials to ascertain the cost of equipping and maintaining a pumping station and pipe line.

ALEXANDRIA, VA.—Ordinance has been before council to appoint committee to confer with officials of Alexandria Water Co. with view to devise means for the improvement of the water.

GREENVILLE, S. C.—J. W. Ledoux, Ch. Engr., American Pipe Mfg. Co., 112 North Broad St., Philadelphia, Pa., is stated to be getting things in shape for construction of proposed new reservoir of Paris Mountain Water Co. on Buckham or Wood Creek, 12 miles from the city.

SPARTANBURG, S. C.—Local water-works company, will, it is stated, install a modern filter plant at a cost of about $20,000. J. L. Ludlow, Winston, N. C., is Engr.

TIFTON, GA.—City votes Nov. 15 on $30,000 bond issue for constructing water-works.

LAKELAND, FLA.—Bids are asked by the Bond Commissioners until Oct. 27 for furnishing material, laying pipe, etc., consisting of about 13,574 ft. of 4 to 8-in. pipe, 30 4-in. fire hydrants, 2 to 2½-in. hose connections without frost jacket, 25 4 to 8-in. valves and boxes, and two tons special castings. W. B. Clay, Engr. (Advertised, Engineering News.)

MIAMI, FLA.—Contract for laying pipe for new water-works here was let Oct. 6 to Captain Baker, West Palm Beach, Fla., for $1,463. Contract for 6,540 cu. yds. excavation was let to Fred Rutter, Miami, for $4,600.

UTICA, MISS.—Another election will probably be held, to vote $15,000 bond issue for water-works, as at election held Oct. 1 required majority was not secured.

KNOXVILLE, TENN.—Bids are asked by Water-Works Commission until Oct. 28 for furnishing and constructing system of water-works or parts thereof. Owen Ford, Consult. Engr., 710 Security Bldg., St. Louis, Mo.; Norman B. Morrell, Secy. (Advertised, Engineering News.)

MADISONVILLE, KY.—City will vote Nov. 8 on issue of $50,000 of bonds for installing municipal water-works.

CLYDE, O.—City voted Oct. 8 to issue $8,400 in bonds for improving local water-works.

MT. HEALTHY, O.—Mayor Alexis Brown writes us that proposition to issue bonds for water-works failed to carry at recent election.

SEBRING, O.—Chapin & Knowles, Consult. Engrs., Frick Bldg., Pittsburg, Pa., are stated to have plans for sedimentation tank and sand filtration works for this city, to cost $30,000.

MENOMINEE, MICH.—Special election is to be held Nov. 1 to decide on purchase of plant of Menominee Water-Works Co., for $250,000. William Holmes is member Board Public Works.

JACKSON, MICH.—Bids are asked until 9 a. m., Oct. 24, for furnishing labor and material for building pumping station, including installation of the machinery. J. F. Harrison, Supt. Pub. Wks.

DIXON, ILL.—Local water company, according to reports, is to erect standpipe on Peoria Ave.

LAGRANGE, ILL.—Committee of Citizens Association has recommended that village sell its water and light plant.

MT. OLIVE, ILL.—Water-works agitated.

WATERMAN, ILL.—Bids are asked by the Board of Trustees until Nov. 7 for the erection in place of one 30,000 U. S. gallon water tank and tower, including foundations, riser pipe, etc. S. M. Henderson, Pres. (Advertised, Engineering News.)

HAZEL GREEN, WIS.—John F. Walsh, Village Pres., writes that contract for water-works and lighting plant was let to Galena Iron Works Co., Galena, Ill. Plants were to cost about $6,000, and bids were opened Oct. 10.

APPLETON, WIS.—Option has been secured for site for new municipal plant; the $300,000 bond issue to be made for its construction will probably be sold about Nov. 1. It is reported that local water-works company will apply for injunction.

DE PERE, WIS.—W. G. Kirchoffer, Consult. Engr, Madison, Wis., has been engaged by this city to design and superintend the reconstruction of its water-works plant, recently purchased from the water companies. The permanent reconstruction will not be completed till next year, but some temporary changes are to be made this fall. In this connection bids will be received by the city until 8 p. m., Oct. 27, for two centrifugal pumps and two electrical motors.

NORTH MILWAUKEE, WIS.—Bids are asked by the Board of Trustees until Nov. 1 for furnishing the material and constructing a line of 4-in. water pipe on 37th St., together with excavating and leveling trenches, laying and setting pipes, hydrants and special castings, lead gaskets, etc. Thos. A. FitzSimmons, Pres.; W. E. Chase, Village Clk. (Advertised, Engineering News.)

SPOONER, WIS.—We are informed that village voted Oct. 6 to issue bonds for new municipal water-works. At time of writing, Oct. 10, no steps had been taken toward the work. Supply is to be from wells, and est. cost of system is $11,000. Oscar Clausen, St. Paul, Minn., will probably be Des. Engr. F. Hammill is Village Pres.

ROCKTON, WIS.—Water-works agitated. Bond issue may be voted on; system could be put in for about $5,000.

AMES, IA.—City voted Oct. 10 to issue $28,000 of bonds for extending water-works system.

GARRISON, IA.—We are informed that water-works will not be installed at present. E. A. Graves is Mayor.

CLYDE, KAN.—Village votes to issue $8,000 of bonds for municipal water-works.

BENSON, NEB.—C. C. Williams, Secy., writes that matter of installing municipal water-works has not been decided. Proposed source of supply is from a well, and est. cost of system is $15,000.

LINCOLN, NEB.—H. C. Leavitt, Omaha, Neb., has applied to State Board of Irrigation for an appropriation of water from North Platte River for a canal project. It is proposed, according to reports, to spend $1,548,000 to irrigate 126,000 acres of land. The headgate will be constructed in Scott's Bluff County, near Mitchell, and the canal will be 150 miles in length, ending near Bayard, Cheyenne County, in Red Willow Creek. The canal will go through Scott's Bluff, Sioux and Cheyenne Counties and is to be completed by 1914. The new venture is to bear the name of the Union Canal.

FARGO, N. DAK.—Bids are asked by H. J. Gibson, Cy. Audr., until Oct. 26 for laying a 14-in. main in 6th St., a 12-in. main in Broadway, a 10-in. main in First Ave., and a 4-in. main in 7th St.

GRAND FORKS, N. DAK.—Residents of East Grand Forks have petitioned city to lay main across river on International Ave.

HELENA, ARK.—Mayor Hugh Martin is advocating municipal ownership of the water-works and electric light plant.

AUSTIN, TEX.—F. T. Ramsey has submitted proposition to council to furnish city with 1,000,000 gallons of water per day.

CORSICANA, TEX.—Committee has been appointed to secure engineer to estimate value of local water-works, looking to its purchase by the city. If favorable report is made election may be held to vote on bond issue.

EL PASO, TEX.—Ordinance has been before Council to grant franchise to Charles Davis for constructing and maintaining water-works. It is understood that supply will be obtained from springs near Alamogordo, and piped to this city.

County Commissioners have granted franchise to Highland Park Water Co. to establish water-works at Highland Park. It is stated that $75,000 will be spent on enterprise. Wells have already been sunk.

AUSTIN, TEX.—Yoakum Land & Irrigation Co. has been chartered; capital is $200,000, and it is proposed to conduct general system of irrigation and water-works in Counties of Starr, Cameron and Hidalgo. W. S. Dougherty, Hidalgo, Tex., and Uriah Lott, Brownsville, Tex., are interested.

OKLAHOMA CITY, OKLA.—Mayor Van Winkle has issued a call for a special election Nov. 8, to vote $375,000 bonds for water-works and sewers.

DENVER, COLO.—Laramie Tunnel, Ditches & Seeders Co. has made a filing with State Engineer for its Link reservoir enterprise. It is proposed to take water from Laramie River and to convey it by a tunnel, two miles long, 7 ft. deep and 6 ft. wide to Cache la Poudre, where it will be used to irrigate 80,000 acres of land. Cost of project is estimated at $375,000. Harry L. Monroe, St. Louis, Mo., is interested.

SOUTHPARK, WASH.—Council has been considering application for franchise to construct water-works.

ROCKFORD, WASH.—We are informed that town will hold election Oct. 29 to vote on bond issue for putting in municipal works. Supply is to be from a well and est. cost of system is $10,000. J. B. Gilbert is Town Clk.

CONDON, ORE.—Council is considering matter of new water system, according to reports, and will employ surveyors to map out route to the mountains, 20 miles distant, where a supply could be obtained.

ROSEBURG, ORE.—Calapooia Investment Co. has been incorporated with $50,000 capital, and proposes to establish canals, storage reservoirs, etc., for irrigation of about 10,000 acres. F. J. Blakely and F. B. Waite are interested.

MOUNTAIN VIEW, CAL.—Town Trustees have adopted plans and specifications of C. E. Moore, Consult. Engr., Santa Clara, Cal., and are reported to be calling for bids for construction of a pump pit, a pumping plant, a building to cover same, a wooden water tower and tank and a distributing system.

SAN FRANCISCO, CAL.—Fire Committee of Supervisor are reported to be considering selection of salt water reservoir site for which $75,000 has been appropriated.

SAN FRANCISCO, CAL.—Tonopah & Goldfields Water Co. has been incorporated; capital, $2,000,000; place of business, San Francisco. E. G. Wheeler and [illegible] H. Chickering are interested.

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LONG BEACH, CAL.—We are informed that [illegible] tee from City Council, with Street Superintend[illegible] City Engineer, have been appointed to propose [illegible] nicipal water system and to make an estimate of same. Capacity of plant is to be sufficient for po[illegible] of 20,000. Proposed supply is to be from artesian [illegible]

OAKLAND, CAL.—The Bay Cities Water Co. [illegible] newed its offer to sell a municipal water supply [illegible] land for $3,750,000. Its idea is to increase its tend[illegible] guaranteed delivery of 12,000,000 gallons of water [illegible] to 20,000,000.

REDDING, CAL.—It is stated that the Shasta [illegible] Co., Harry L. Shannon, San Francisco, Cal., Pres. [illegible] put in water-works here, the suppply to be from [illegible] wells in West Redding.

SANTA ANA, CAL.—Committee on Water System [illegible] provements are reported to favor $100,000 bond issue [illegible] extension of the system.

UKIAH, CAL.—Election may be held to vote on $[illegible] bond issue for municipal water-works.

BOISE, IDAHO.—Montpelier Irrigation District has [illegible] formed with W. J. Hunter, J. R. Brennan and Chas. [illegible] phens as directors. It is thought that the canal, which will be about 27 miles long, will be completed for [illegible] next season.

PRICE, UTAH.—Local reports state that the Utah [illegible] Co. is to establish a water system for the camp at [illegible] nyside at once. The water will be brought from R[illegible] Creek by a gravity system. A tunnel 3,100 ft. long will be bored through the mountain at the head of No. 2 [illegible] yon. An auxiliary reservoir will also be established.

MURRAY, UTAH.—Water-works agitated.

BISBEE, ARIZ.—Appropriation of $7,000 has been made for fire protection mains.

WADSWORTH, NEV.—The Wadsworth Power & Electric Co. is stated to have been negotiating with the Citizens' Committee to build a large reservoir on the hill east of town, where water will be stored and piped to the town.

SEWERAGE.

SALEM, MASS.—Bids are asked by the Sewerage Commission until Nov. 4 for furnishing 11,600 ft. of 30-60-in. pipe and specials. Joseph N. Peterson, Chn. Ernest W. Bowditch, Engr. (Advertised, Engineering News.)

HUDSON, MASS.—Geo. M. Bryant has contract for sewer system, at $36,160.

LAWRENCE, MASS.—New sewer is reported needed for abatement of Potters Pond nuisance. Cost is estimated at about $40,000. A. D. Marble is Cy. Engr.

BOSTON, MASS.—Patrick A. Collins, Mayor, has asked Board of Aldermen to pass a loan order of $600,000 outside city debt limit for construction of conduits for storm and surface water sewers. James Donovan is Supt. of Streets.

MONTCLAIR, N. J.—Bids are asked until 8 p. m., Oct. 24 for construction of an 8-in. earthen pipe sewer. Harry Trippett, Town Clk.

NEW YORK, N. Y.—Bids are asked until Oct. 31 for constructing two sewers in Borough Queens. Joseph Cassidy, Boro. Pres.

FULTON, N. Y.—Lowest bidder for construction of West Side sewers was Frank Pidgeon, of Saugerties, N. Y., at about $22,000. Three bids were received.

JERSEY CITY, N. J.—Plans and specifications prepared by C. H. Van Keuren, Ch. Engr., have been received by Street and Water Board for Jackson Ave. district sewer. Plans call for a sewer to be built partly of brick and partly of steel. It is to be eight ft. wide at its terminus at New York Bay. Sewer will be nearly two miles long, and is to drain not only the Jackson Ave. district, but also furnish an outlet to New York Bay for the Claremont Ave. sewer, that now deposits on the meadows in Lafayette. Union St. is also to be drained by the new outlet. Entire cost is to be $160,000. This sum is to be raised by a bond issue after Dec. 1, when it is planned to have contract awarded and the work under way.

GUTTENBERG (WEEHAWKEN P. O.), N. J.—Bids will be asked soon for a sewer in Hudson Boulevard. Ordinance is before council.

HOBOKEN, N. J.—Bids are asked until Oct. 26 for construction of sewer in First St. across Park Ave. James Londrigan, Cy. Clk.

HARRISBURG, PA.—Bids are asked until 2.30 p. m., Oct. 21, for building sewer in Pennsylvania canal towpath. D. C. Stamm, Secy. Bd. Pub. Wks.

WASHINGTON, D. C.—Following bids were received by District Commissioners, Oct. 13 for constructing pipe sewers: Lyons Bros., Washington, D. C., $17,503; Jas. A. Cayle, Washington, D. C., $9,952; E. G. Gumonel, Washington, D. C., also bid his proposal, however, not concerning all of the work. D. E. McComb is Supt. Sewers.

ELBERTSON, GA.—Election will be held on Nov. 10 to vote upon question of issuing $20,000 of bonds for sewer purposes.

THOMASVILLE, GA.—City will vote on Nov. 10 upon question of $25,000 bond issue for extending sewer system and $35,000 for erecting or purchasing electric-light plant.

OXFORD, MISS.—Sewer system will be extended at cost of $5,000.

HOLLY SPRINGS, MISS.—Board of Aldermen has passed a resolution providing for issuance of $19,000 sewer bonds. Kirkpatrick & Johnson, of Jackson, Miss., have been commissioned to prepare plans for system, including disposal works.

LOUISA, KY.—Louisa Water Co., W. B. Cox, Mgr., according to reports, proposes to purchase 11,000 ft. sewer pipe, about 30 trench braces and 24 catch-basins.

DAYTON, O.—Bids are asked by Wm. F. Miller, Clk. Bd. Pub. Ser., until 12 p. m., Oct. 25, for construction of a storm water sewer in Horton St., from 5th St. to Hydraulic race. Approximate quantities: 1,250 lin. ft. 30-in., 680 lin. ft. 15-in. and 750 lin. ft. 12-in. pipe sewer; ten manholes; 34 catch basins, and 20 cu. yds. concrete masonry.

FINDLAY, O.—Bids are asked until Oct. 28 for constructing a sewer. J. C. Edie, Clk. Bd. Pub. Service.

COLUMBUS, O.—The Coffin Valve Co., of Boston, Mass., is reported to have contract for furnishing sewage screens, etc., at $17,967. Julian Griggs is Ch. Engr., Bd. Pub. Service.

BRAZIL, IND.—Estimated cost of proposed sewer system is placed at about $16,500. Bids for this work will be received on Nov. 1. Henry Knecht is St. Comr.

DECATUR, IND.—Bids are asked until 7 p. m., Oct. 21 for constructing drainage sewer in west part of city. J. R. McFeeley, City Clk.

GRAND RAPIDS, MICH.—Contract for sewer in Fulton and Island Sts. was awarded to Kloote & Vanderveen, at $15,4[illegible].

ROCK FALLS, ILL.—H. D. Hallett, of Aurora, has been awarded contract for the construction of a sewer at $6,3[illegible].

GLENWOOD, MINN.—Ilstrup & Olson, Minneapolis, Minn., secured contract for construction of sewer and steel concrete septic tank at this place for $4,692.

MILWAUKEE, WIS.—$7,000 will be available for replacing with a brick tunnel the 15th and North Sts. wooden sewer.

DAVENPORT, IA.—Edw. Collins, City Clk., is reported to have estimated that the proposed sewer to be constructed in the northern part of the city will cost $53,000. Thos. Murray is City Engr. Noted last week.

KNOXVILLE, IA.—J. W. Twiner, of Des Moines, was lowest bidder for constructing about 10,000 ft. of pipe sewers, at $26,998. O. P. Herrick, Des Moines, submitted low bid of $27,520. Seven bids were received.

KANSAS CITY, KAN.—D. W. Pike, Cy. Engr., will, it is said, prepare an amendment to ordinance providing for storm and sanitary sewers in East 31st St. district so that combination sewers may be constructed. Cost, including filter beds, etc., is placed at about $30,000 to $32,000.

TOPEKA, KAN.—Brooks & Gilmore were awarded the contract for constructing the Fifth Ward sewer at $57,337. Five bids were received.

VALLEY CITY, N. DAK.—Mason & Peterson, of this city, were awarded contract for constructing sewers at $3,571. W. T. Crasswell is Cy. Audr.

MITCHELL, S. DAK.—I. W. Seaman was awarded sewer contract at $60,000.

BUTTE, MONT.—W. E. Walsh was lowest bidder at $11,770 for constructing three sewers. All bids were rejected, it is reported.

AMARILLO, TEX.—City has voted to issue $45,000 of bonds for sewer purposes.

PINE BLUFF, ARK.—Contract for sewer, district No. 3, was awarded to Dunnegan & Sykes, Shenandoah, Ia. Eleven miles of sewer will be built at a cost of $35,000.

SAN JOSE, CAL.—Specifications for furnishing city with 61,000 lengths 6 to 20-in. salt-glazed vitrified sewer pipe, Y's, etc., are on file at Eng. News office, N. Y. Bids are asked until 10 a. m., Oct. 20. F. N. Dixon is Secy. Bd. Pub. Wks.

COLUSA, CAL.—J. W. Kaerth, Engr., has submitted the following report to Board of Trade and recommended a sewer system, the estimated cost of which would be as follows: 9,880 ft. 10-in. vitrified salt glazed sewer pipe in place, $5,227; 35,000 ft. 6-in. vitrified salt glazed sewer pipe in place, $9,275; 800 branches, various sizes, $528; 800 curves and elbows, $440; 32 automatic flush tanks for laterals, $1,280; two large flush tanks for mains, $400; 100 manholes and lamp holes, $2,000; 1 septic tank, $1,000; one concrete receiving tank, $2,500; one pumping plant, complete, $6,500; 4,500 ft. of discharge pipe in place, to farm, $3,150; 80 acres of land, for sewage farm, $3,200; incidental expenses, $5,520.

GARBAGE DISPOSAL—STREET CLEANING

ORANGE, N. J.—Council has passed resolution declaring that garbage crematory should be established as soon as possible. Cost would be about $15,000. Chas. W. Romine is Chn. Pub. Health Com.

PHILADELPHIA, PA.—Bids were received Oct. 10 for disposal of city garbage for ensuing year, and Peter Costello, Dir. Pub. Wks., is stated to have awarded contract to American Product Co. for $560,000.

MUNCIE, IND.—City has secured site for its proposed garbage furnace, and Garbage Committee, Councilman W. F. White, Member, is said to be considering plans for the new plant.

ST. LOUIS, MO.—City Counselor Bates, assisted by special counsel, is preparing an ordinance providing for the construction and operation of incinerators for the cremation of the city's garbage.

STREETS AND ROADS.

BOSTON, MASS.—E. W. Everson & Co., City, were awarded the contract by Metropolitan Park Commission for grading, resurfacing and other work at Revere Beach reservation and Lynnway, at their bid of $117,063. Bids opened Oct. 10. John R. Rablin, Engr., 14 Beacon St.

DUDLEY, MASS.—Board of Selectmen awarded the contract for macadamizing roads to Ferranti & Maguire, of Worcester, for $3,675.

POMFRET, CONN.—Bids are asked by Board of Selectmen until Nov. 1 for construction of one section of telford and another section of macadam and telford road. Plans and specifications may be seen at office of Town Clk.

WATERBURY, CONN.—Board Public Works awarded to Edward McManus, for $6,914, the contract for grading and layout of East Main St., and for building a retaining wall on Alder St.

BROOKLYN, N.Y.—Atlantic Ave. will be made into a boulevard. Board of Estimate allows $300,000 for the improvement and pavement of thoroughfare. Martin W. Littleton is Boro. Pres.

NEW YORK, N. Y.—Bids are asked until Oct. 24 by John F. Ahearn, Pres. Manhattan Boro., for repairing and maintaining asphalt block pavement on a portion of 11th St., requiring about 2,500 sq. yds. asphalt block; for regulating and repaving with asphalt block on a portion of Park Ave. and Broadway, requiring 31,310 sq. yds. asphalt block; for flagging, reflagging, curbing and recurbing sidewalks on various streets in Borough, requiring 7,923 sq. ft. new flagstone; also on same date for repairing and maintaining asphalt pavements in Borough. Engineer's estimate, 80,000 sq. yds. asphalt pavement, 40,000 sq. yds. asphalt wearing surface delivered and laid in place of old wearing surface destroyed or removed, and 400 cu. yds. Portland cement concrete.

Louis F. Haffen, Pres. Boro. of Bronx, opened bids Oct. 12 for 16 sections of paving. Contracts were awarded as follows: J. J. Clancy, 6 Bradhurst Ave., $11,128; Asphalt Const. Co., 207 Broadway, 2 sections, $29,498; Uvalde Asphalt Paving Co., 1 Broadway, $1,472; New York & Bermudez Co., 114 Liberty St., 8 sections, $19,666; Warner-Quinlan Asphalt Paving Co., 32 Broadway, $34,160; Hastings Paving Co., 25 Broadway, 2 sections, $20,609; Church E. Gates & Co., 138th St. and Railroad Ave., $545.

TOMS RIVER, N. J.—Bids are asked by Board of Chosen Freeholders until Nov. 15 for building a gravel road in Lacey Township. E. Bennett, Dir.

PLAINFIELD, N. J.—Bids are asked until Oct. 20 by Common Council for macadamizing portion of certain streets. Jas. T. MacMurray, Cy. Clk.

ROSCOE, PA.—Borough Council has started preliminary steps towards an issue of $30,000 bonds for sewering, grading and paving.

NEW BRIGHTON, PA.—An ordinance providing for the widening of Allegheny St. was passed by Town Council. Frank C. O'Rourke, Secy.

PITTSBURG, PA.—Bids are asked by Department Public Works until Oct. 24, at 10 a. m., for improving several streets. Edward M. Bigelow, Dir.

BALTIMORE, MD.—It is reported that the City Council Committee on Highways has approved nearly $800,000 worth of paving ordinances.

WASHINGTON, D. C.—Bids were received by Bureau Yards and Docks Oct. 15 for brick and wood paving and concrete sidewalks at Navy Yard, Boston, Mass. (Specification No. 1402), and for brick and granite paving and concrete sidewalks at same place (Specification No. 1399), three lowest bidders in each case being as follows: On Specification No. 1402—Cepalo & Ferguson, 66 Equitable Bldg., Boston, Mass., $7,500; Coleman Brothers, Union St., Everett, Mass., $8,000; Jones & Meehan, 1 Beacon St., Boston, Mass., $8,936. On Specification No. 1399—Coleman Brothers, $6,600; Jones & Meehan, $7,424; Joseph B. O'Rourke, 449 Dorchester Ave., South Boston, Mass., $7,485.

WASHINGTON, D. C.—Bids are asked by Bureau Supplies and Accounts, U. S. N., until Nov. 8 for construction of approach to grounds of U. S. Naval Hospital. Drawings can be obtained from Ernest Flagg, Arch., 35 Wall St., New York, upon deposit of $5.

AUGUSTA, GA.—Bids are asked by City Clerk until Nov. 7 for paving Mitchell St. with asphalt, approximately 4,500 sq. yds., and for paving Madison Ave. with granite blocks, approximately 2,250 sq. yds. R. M. Clayton is Cy. Engr.

JACKSONVILLE, FLA.—The city budget for this year provides for the expenditure of $34,446 for paving. There is also an appropriation of $49,000 in the budget for repairs and maintenance of streets.

EAST LAKE, ALA.—The city will issue $12,500 in bonds for street improvements.

NEWTON, MISS.—The City will issue $8,000 bonds to grade certain streets.

SHREVEPORT, LA.—Bids are asked by C. G. Rives, Cy. Comptroller, until Oct. 27, at 9 p. m., for paving several streets, approximately 36,994 sq. yds. Plans and specifications on file at office of City Engineer.

NEW PHILADELPHIA, O.—Council has decided to construct sidewalks on a number of streets. Bids will soon be asked.

HAMILTON, O.—City Engineer Dillon estimates the cost of repairing damaged surface on High and Main Sts. at $9,400.

TORONTO, O.—County Commissioners have decided to issue $125,000 worth of bonds, the proceeds to be applied to the improvement of county roads.

COLUMBUS, O.—The following contracts were awarded by Board Public Service for street improvements: High St., Cleveland (O.) & Trinidad Paving Co., $30,212; Broad St., Sixth, Fourth Sts., Almond Alley, Mt. Vernon and Pennsylvania Aves, $19,059; Noble St., Geigele & Garnes, City, $7,522; Long St., Buckeye Engineering & Const. Co., $2,155; Grant Ave., Frank J Fisher, City, $3,832.

CINCINNATI, O.—Bids are asked by Board Public Service until Oct. 24 for the improvement of Sharp Alley by grading, setting granite curbs and paving the roadway with brick, according to plans and specifications on file in office of Board. Geo. F. Holmes, Clk.

CELINA, O.—The contract for paving of Main St. with brick was awarded to Contractor Conley, of Dayton. Approximate cost, $75,000.

AKRON, O.—The Council has authorized a $44,000 bond issue for street paving and sewers.

MARION, IND.—Bids are asked by John Wilson, Cy. Clk., until Oct. 28 for improving several streets and alleys.

ENGLISH, IND.—Bids are asked by Crawford County Commissioners until Nov. 7 for construction of gravel roads in Whiskey Run Township and in town of Milton. S. E. McFall, Audr.

SPRINGFIELD, ILL.—Council passed an ordinance for the paving of Fourth St. with asphalt.

DES MOINES, IA.—Forest Drive will probably be paved early next spring.

ST. PAUL, MINN.—Preliminary estimates for the following improvements have been forwarded by City Engineer to Board Public Works: Boulevarding Chatsworth St., $3,340; grading Marshall Ave., $2,236; grading Valley St., $2,453.

Thomas Keough was awarded the contract by Capt. R. M. Schofield, Const. Q. M., for constructing and grading new roadways at Fort Snelling, at $10,400.

ST. PAUL, MINN.—Fielding & Shepley were the lowest bidders, at $12,400, for curbing, boulevarding and improving of Central Ave.

OMAHA, NEB.—Bids are asked by Board Public Works until 2 p. m., Oct. 21, for grading of Corby St. Wm. Coburn, Secy.

OMAHA, NEB.—The Barber Asphalt Co. was awarded the contract for resurfacing North 16th St.

LINCOLN, NEB.—Bids are asked by Geo. L. Campen, Cy. Engr., until 2 p. m., Oct. 24, for paving roadway in alley paving district No. 16 with vitrified brick.

WEBB CITY, MO.—Bids are asked until Nov. 7 for paving Church and Webb Sts. with vitrified brick, approximately 2,504 sq. yds. Plans and specifications on file in office of City Clerk. W. E. Smith, Cy. Engr.

KANSAS CITY, MO.—All bids for grading Prospect Ave. were rejected as being too high. New bids will be readvertised for. The lowest bidders were L. Davidson, $44,163, and P. C. Fielding, $45,049.

AUSTIN, TEX.—Bids are asked until Oct. 25 for paving of Congress Ave. John B. Hawley, of Fort Worth, is Cy. Engr.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

OKLAHOMA CITY, OKLA.—Bids are asked by T. A. Blaise, Cy. Clk., until 6 p. m., Oct. 21, for grading of several streets.

DURANGO, COLO.—Bids are asked by County Clerk until Nov. 10 for construction of a state wagon road. L. G. Carpenter, State Engr., Denver.

SHELTON, WASH.—Bids are asked by T. W. Daniels, Comr. Second Dist., until Oct. 22, 2 p. m., for clearing and grading one mile of Murray road.

PORTLAND, ORE.—F. S. Morris, of Oregon Water Power & Railway Co., announces that his company will expend $100,000 this year to give Portland a summer resort patterned after New York's Coney Island. It is planned to convert the park north of Sellwood, known as Oak Point, into an island on the river. Engineers are to lay out the grounds immediately.

BAKERSFIELD, CAL.—Bids are asked by Board of Supervisors until Nov. 12 for completion of Kern River road. Est. cost, $15,000.

BERKELEY, CAL.—Resolution of intention was adopted by Board of Trustees to order that Hazel St. be guttered with concrete gutters 3 ft. wide and macadamized. C. S. Merrill, Town Clk.

SAN MATEO, CAL.—Resolutions of intention were adopted by Trustees to order that Baldwin Ave. be macadamized and concrete curbs be constructed. P. F. Maloney, Street Supt.

MANUFACTURING PLANTS.

WILLMANTIC, CONN.—The Windham Cotton Mfg. Co. proposes to build a weave shed addition to its plant here, with a capacity of 1,000 looms. Cost, $200,000.

SCHENECTADY, N. Y.—The Scranton Stove Co. will erect a plant here.

PORT CARBON, PA.—The Franklin Iron Works, manufacturer of air compressors and mining machinery, will rebuild its plant, which was recently wrecked by an explosion. Though it is not yet fully decided, it is likely that the company will install a gas engine.

BRADFORD, PA.—Henry Leon has invited bids for a silk mill here. Brick, two stories, 100 × 110 ft.

LEHIGHTON, PA.—The Lehighton Foundry & Machine Co., will soon purchase a quantity of new machinery for equipping its proposed new shops, but at present the company is in the market only for a four-spindle horizontal drill.

WILMINGTON, DEL.—The Wilmington Machine Co., care of Jas. English, has invited bids for a machine shop at this place; brick, one story.

BALTIMORE, MD.—The Excelsior Brick & Pottery Co. has invited bids for the erection of a new 2-story pottery and brick plant.

Thorn C. Kennedy, Arch., 331 North Charles St., is preparing plans for a box factory for W. H. Ashardorf. Brick, one story, 50 × 100 ft.

WILMINGTON, N. C.—The Angola Lumber Co. will increase the capacity of its mill from 60,000 ft. per day to 110,000 ft. by adding new machinery. W. T. Sears is Mgr.

The Waccaman Land & Lumber Co., recently incorporated with a capital of $1,000,000 will build a lumber mill either at Wilmington or Southport.

HIGH POINT, N. C.—J. H. Mills will establish a knitting mill here. A site has been purchased and a modern mill structure two stories high, 60 × 100 ft. and 30 × 40 ft., will be erected.

NORTH WILKESBORO, N. C.—J. V. Wallace will build a new foundry and machine shop here.

CHARLESTON, S. C.—The following bids were received under Item No. 1 by Bureau of Yards and Docks, U. S. N., Washington, D. C., Oct. 15 for foundry at Charleston navy yard: W. O. & C. G. Burton, 1016 Hibernia Bldg., New Orleans, La., $73,000; Simons-Mayrant Co., 16 Broad St., City, $68,823; Moise De Leon, 506 English-American Bldg., Atlanta, Ga., $64,870; Standard Const. Co., First Nat'l Bank Bldg., Chicago, Ill., $80,480; Hunkin Bros. Const. Co., 314 Cuyahoga Bldg., Cleveland, O., $97,627; Nicholas Ittner, 240 Jackson St., Atlanta, Ga., $93,872; John C. Robinson, 113 Adams St., Chicago, Ill., $77,495; Grant Wilkins, 23½ Whitehall St., Atlanta, Ga., $71,000; Penn Bridge Co., 312 Bond Bldg., Washington, D. C., $71,389; Clark Const. Co., Chicago, Ill., $70,197; E. T. Mankin, 812 East Main St., Richmond, Va., $69,896; Conners Bros. Const. Co., 16 Thorndike St., Lowell, Mass., $89,000.

MACON, GA.—The Ashepo Fertilizer Co., of Charleston, S. C., will erect a fertilizer factory with an annual capacity of 30,000 tons. Frank E. Taylor is Gen. Mgr.

SWAINSBORO, GA.—The "Pink Sheet Daily Bulletin" states that Jesse Thompson, Sr., contemplates erecting a $100,000 cotton mill here.

HUNTSVILLE, ALA.—James B. Rickey will erect a saw mill and finishing plant.

FLORENCE, ALA.—Max Friedland will establish a pants factory here.

HUNTSVILLE, ALA.—Plans are being drawn by Cowell & Love, Archs., for a new ice factory to be erected by the Huntsville Ice & Coal Co.

BIRMINGHAM, ALA.—The Brantley Mfg. Co., capital $100,000, has been incorporated to do a general foundry and machinery business and to engage in the manufacture of cotton gins, etc. The incorporators are: J. S. Boggs, of Albany, Ga.; Ben. T. Wade, of Troy, N. C., and H. Linden Zell, of Birmingham.

JACKSON, MISS.—Geo. W. Snyder, of Blymer, Mo., will probably locate a wagon factory in this city

J. H. Halcomb of Jennings, La., contemplates establishing a brick plant here. Address the Secretary of Board of Trade.

MERIDIAN, MISS.—A canning factory will probably be established here by J. A. Silver, of Lexington, Mo.

The J. A. Abrams Canning Co., of Fruitdale, Ala., will probably locate a canning factory here.

WATERTOWN, TENN.—A plant for making sash, doors, veneering, etc., will be established here by F. Smith.

CHATTANOOGA, TENN.—The Tennessee Stove Works have been organized by J. L. Caldwell, R. B. Davenport, G. N. Henson and others. Capital, $100,000. The plant at first will consist of two brick buildings and there will be sufficient space on the site for additional buildings as demands may require. The warehouse, with molding and cleaning rooms, will be 100 × 275 ft. The molder's room will be 100 × 200 ft., and will be equipped with machinery of the latest design.

NASHVILLE, TENN.—J. S. Henderson, 915 Buchanan St., and others, contemplate erecting a carbon paint plant. Cost, $500,000.

MEMPHIS, TENN.—Standard Wheel Co. will build a plant to replace one recently destroyed by fire at a loss of $12,000.

WEST POINT, TENN.—The J. Allen Littrell Co. will erect an $8,000 hoop factory here. Address J. Allen Littrell, Loretto, Tenn., for information.

CHATTANOOGA, TENN.—M. Mendez and C. Alonzo will establish a cigar factory here.

LAFOLLETTE, TENN.—An open hearth steel plant will be erected here. H. M. LaFollette can inform.

CORNERSVILLE, TENN.—The Cornersville Canning Factory Co. has been organized with the following officers: D. C. Kennedy, president; S. M. Haywood, treasurer; W. G. Wilkerson, secretary and general manager. Work of construction will begin within 30 days.

NASHVILLE, TENN.—S. H. Brubaker, of Indianapolis, Ind., will establish a cold storage plant in this city at a cost of $200,000. Secretary of Retail Merchants' Assoc. can give information.

MIDDLESBORO, KY.—The Virginia Iron, Coal & Coke Co. is dismantling the steel plant at Middlesboro preparatory to moving it to Max Meadows, Va. The company intends to erect a large plant at Max Meadows, and this Middlesboro plant will form a part of it.

FLAT ROCK, IND.—The factory of the Flat Rock Canning Co and several other buildings was destroyed by fire. Loss. $100,000.

DE QUINCY.—The plant of the Midway Lumber Co. will be rebuilt.

CHICAGO, ILL.—Jos. Downey is to build a 6-story manufacturing block at Jackson Boulevard and Desplaines St. Cost, $60,000.

A manufacturing block, six stories, 70 × 111 ft., is to be built by Lewis Institute at Congress St. and Larretta court for John Berry, confectioner. Cost, $60,000.

WALNUT RIDGE, ARK.—W. R. Lane will erect an ice factory here at a cost of $10,000.

PINE BLUFF, ARK.—Sawyer & Rustin Lumber Co. will rebuild their plant, burned recently at a loss of $500,000. D. A. Kendall is Mgr.

KANSAS CITY, MO.—The American Dressed Beef Co., capital $1,250,000, has been chartered to erect a packing plant at a cost of $250,000. Charles E. McSweeney is Pres.

PARIS, TEX.—The contract for building the electric cotton mills at this place has been let to J. F. Gallivan & Co., of Greensboro, N. C. It is to be a $750,000 plant and work will commence this month.

WACO, TEX.—L. C. Todd, of Waxahachie, contemplates the organization of a company for the erection of a large cotton mill here.

GUTHRIE, OKLA.—A starch factory will be located here. A. W. McKeand can give information.

EL PASO, TEX.—The Automatic Settler Co., City, proposes to establish a large manufactory for making the Allen Automatic Settler.

PORTLAND, ORE.—Manager Paul Wessenger will increase the capacity of Weinhard brewery from 75,000 barrels to 125,000 barrels. An old department will be torn out and remodeled. It will have iron stairways and brick and steel materials will be used. Cost, about $20,000.

PORTLAND, ORE.—The Columbia Basin Stockyards Co. will establish an independent packing house here. Capital, $50,000. Geo. T. Myers is Pres. The site has not yet been selected.

POINT RICHMOND, CAL.—The Pacific Coast Oil Co. intend enlarging their plant here.

EMERYVILLE, CAL.—A petition was sent to the Council from the Western Carbonic Gas Works and the Paraffine Paint Works asking that Second St. be closed as they wish to enlarge their plant, spending some $50,000 in so doing.

BERKELEY, CAL.—The plant of the San Francisco Chemical Works at Fleming Plant, which was recently damaged by fire to the extent of $10,000, is to be rebuilt, according to Richard Trenouth, Mgr.

KERN, CAL.—A communication was received from F. A. Meggs, commission merchant, requesting that the town donate five acres of land for a chemical plant to cost $50,000.

RIVERSIDE, CAL.—The National Ice Co. is to erect a plant here in the near future. There will also be an ice storage plant with a capacity of 4,000 tons. The ice-making plant will have a daily capacity of 50 tons.

CASTLEDALE, UTAH.—Don C. Robbins of Salt Lake City, states that the Utah Sugar Co. contemplated the erection of a sugar factory if encouraged by people.

VICTORIA, B. C.—The Quatsino Pulp & Power Co. is having plans and specifications prepared for the erection of a pulping plant to have capacity of 125 tons of pulp a day.

MISCELLANEOUS CONTRACTS.

PUBLIC DOCK.—Edgewater, N. J.—Mayor and Council are considering sites on which to erect public dock.

LEVEE WORK.—Dayton, O.—Council has appropriated $10,000 for improving west levee from Dayton View hydraulic north.

LEVEE.—Memphis, Tenn.—County Court, according to reports, will be asked to appropriate $200,000 for building a levee on Wolf River.

OIL COMPANY.—Shiocton, Wis.—Shiocton Oil Co. has been incorporated; capital is $40,000. Geo. H. Lonkey and H. Hamlin are interested.

OIL PIPE LINE.—San Francisco, Cal.—Board Public Works has passed bill granting Associated Oil Co. permission to lay a pipe line.

PROTECTION WALL.—Toledo, O.—Bids are asked by David T. Davies, Jr., County Audr., until Oct. 24 for constructing 1,900 ft. of protection wall.

OIL PIPE LINE.—San Luis Obispo, Cal.—Union Oil Co. has asked County Supervisors for franchise for oil pipe line right of way through this place.

OIL COMPANY.—San Luis Obispo, Cal.—Santa Lucia Oil Co. has been incorporated; capital is $500,000. F. C. Cherry and G. J. Walters are interested.

DREDGING.—New York, N. Y.—P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., was low bidder Oct. 11 for dredging in Passaic River, N. J.

STEAM VESSEL.—Detroit, Mich.—Bids are asked until Nov. 26 for constructing and delivering one steel vessel. Lt.-Col. Chas. E. L. B. Davis, U. S. Engr.

OIL PIPE LINE.—San Jose, Cal.—Coalinga Oil Transportation Co. has applied for franchise to construct and maintain oil pipe lines in Santa Clara County.

WALL.—Baltimore, Md.—Ordinance has been before Council to appropriate $11,000 for rebuilding west wall of Jones Falls, between Baltimore and Pratt Sts.

STEEL.—Boston, Mass.—Boston Transit Commission opened bids Oct. 11 for 435 tons structural steel, and awarded contract to Boston Bridge Works for $9,010.

LEVEE AND DRAINAGE.—Sacramento, Cal.—Electors voted Oct. 5 to incur a municipal bonded indebtedness of $165,000 for improvement work on the levees and for drainage works.

RETAINING WALL.—Cincinnati, O.—Bids are asked by Clerk, Board of Education, until Oct. 31 for erection of stone retaining wall and iron fence at the Lincoln school building.

HARBOR BOAT.—Washington, D. C.—Bids were received at Quartermaster General's Office Oct. 12 for second-class harbor boat, bid of Neafie & Levy Co., of $59,000 being accepted.

WHARF.—Martinez, Cal.—County Supervisors, J. E. Rodgers, Clk., will receive bids until Nov. 7 for franchise to construct and maintain wharf on southern shore of the Bay of Suisun.

RIVER DEEPENING.—Chicago, Ill.—Sanitary District Trustees awarded contract Oct. 10 to Harding & Co. for deepening west fork of south branch of Chicago River. Contract price is $25,385.

DOCK IMPROVEMENTS.—Two Harbors, Minn.—It is said that reconstruction of ore dock No. 3 at this place is under consideration. Coal dock facilities may be improved also, and new dock constructed.

DOCK WORK.—Elizabeth, N. J.—New Jersey Dock & Bridge Building Co., which has $200,000 contract for rebuilding Central R. R. docks between Livingston St. and Port Ave., began work Oct. 10.

DREDGING.—Washington, D. C.—Columbia Dredging Co., 64 Broad St., New York, was low bidder at about $8,715, Oct. 15 for about 35,000 cu. yds. dredging at League Island, Pa., Navy Yard.

TELEPHONE SYSTEM.—St. John, N. B.—Council has approved proposition either to install telephone system of its own, or to negotiate with some company to enter the city and compete with present corporation.

TUNNEL.—Boston, Mass.—Plans and specifications for constructing Sec. 1 of Washington St. tunnel are on file at office of Engineering News, 220 Broadway, New York. Bids are asked until Oct. 27, as advertised in Engineering News.

DREDGING.—New London, Conn.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for dredging in New Haven Harbor, Conn. Bids are asked until Oct. 28, as advertised in Engineering News.

DREDGING.—Washington, D. C.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for dredging in Potomac River and in Nomini Creek. Bids are asked until Nov. 2, as advertised in Engineering News.

BLOWER SYSTEMS.—Kingsland, N. Y.—Engineering Department, Delaware, Lackawanna & Western R. R., is preparing specifications for the blower systems to be used in its new shops at this place. Lincoln Bush, Hoboken, N. J., is Ch. Engr.

ORE AND COAL DOCK MACHINERY.—Cleveland, O.—It is reported that Pennsylvania R. R. will make a complete change in method of handling ore at Whiskey Point, which will include increasing both ore and coal dock machinery and establishment of a new yard.

DAM REMOVAL.—Wilkesbarre, Pa.—It is stated that $30,000 will be raised for purchase of dam in Susquehanna River at Nauticoke from the P. R. R. The dam will be removed from the river to prevent floods. H. P. Fell, Wilkesbarre, is on Committee.

RECREATION PIER.—Elizabeth, N. J.—Council has appropriated funds for purchase of site for public dock and recreation pier and it is probable that city will issue bonds for erection of same. Councilman Col. Dennis Collins may be able to give information.

DAM AND LOCK.—Boston, Mass.—U. S. War Department has approved detail plans for the dam and lock across the Charles River between this city and Cambridge, and it is expected that bids will be taken soon. Hiram A. Miller, 367 Boylston St., Boston, is Ch. Engr., Comn.

PARKS, PLAYGROUNDS, ETC.—Berkeley, Cal.—Trustees are considering bond issue of $522,000 for the purpose of creating parks and playgrounds, sewers, new and larger school buildings, a wharf at West Berkeley, a modern improved fire department, and a new town hall.

DREDGING.—Superior, Wis.—But one bid was received Oct. 5 by Major Chas. L. Potter, U. S. Engrs., for about 21,120 cu. yds. dredging for foundation of new concrete piers at Superior entry. This was from Superior Contracting & Dredging Co., and totaled $10,600. It was stated to have been rejected.

BOILERS, ETC.—New York, N. Y.—Bids are asked by the Police Commissioner, 300 Mulberry St., until Nov. 3, for the installation of steam boiler, hot water boiler, hot water heater, electric elevator, pump, etc., in Borough Headquarters Bldg., No. 269 State St., Borough of Brooklyn. William McAdoo, Comr.

DOCKS.—Baltimore, Md.—N. H. Hutton, Harbor Engr., has been instructed to prepare plans and specifications for the construction of new docks, to replace those destroyed by the recent fire. A dock loan of $6,000,000 was voted some time ago for the work. It is probable that construction work will be started about Jan. 1.

COAL HANDLING PLANT.—New Orleans, La.—Bids are asked by Bureau of Yards and Docks, U. S. N., Washington, D. C., until Dec. 3 for constructing a plant for handling and storing coal at Naval Station. Specifications are on file at office of Engineering News, 220 Broadway, New York. Mordecai T. Endicott, Ch. of Bureau.

DRAINAGE AND LEVEE WORK.—New Madrid, Mo.—Contract for the drainage and levee work of Drainage District No. 13, of New Madrid County, amounting to 291,675 cu. yds., will be offered at public outcry and let to the lowest responsible bidder at the Court House in the Town of New Madrid, Nov. 9. Joel Dunn, Engr. Morehouse, Mo.

ELECTRIC BLOWERS, WIRE, LIME, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Nov. 8 for furnishing at navy yards, etc., Pensacola, Fla., Key West, Fla., and New Orleans, La., naval supplies, among which are electric blowers, weatherproof wire, lime, sand, fire brick, Portland cement, Little Giant drills, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

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LAMPS, HOISTING ENGINES, ETC.—W[illegible]gton, D. C.—Bids are asked by Bureau Supplies and [illegible] until Nov. 1 for furnishing at navy yards, Mar[illegible]d, Cal., and Puget Sound, Wash., and at Naval Tra[illegible] Station, San Francisco, Cal, naval supplies, among [illegible] are incandescent lamps, telephone switchboard, dr[illegible]e, rails, fire hose, hoisting engine, etc. H. T. B. [illegible]s, Paymaster Gen. U. S. N.

FIRE ENGINES, FIRE HOSE.—New York [illegible] Y.—Bids are asked by the Fire Commissioner, 157 E. 67[illegible], until 10.30 a. m. Oct. 27 for furnishing and de[illegible]ng two first size steam fire engines, three second siz[illegible]am fire engines, two third size steam fire engines an[illegible] fourth size steam fire engine. Bids are also asked fo[illegible]nishing and delivering 29,000 ft. 2½-in. cotton fabric [illegible] lined fire hose, and 25,000 ft. 2½-in. rubber fire ho[illegible] Nicholas J. Hayes, Comr.

BOAT.—Washington, D. C.—Following bid[illegible] re received Oct. 12 by Major Chauncey B. Baker, Q[illegible] U. S. A., War Department, for one second-class harb[illegible]eamer: New York Shipbuilding Co., Camden, N. J., $7[illegible] Racine Boat Mfg. Co., Muskegon, Mich., $60,60[illegible] [illegible]ey & Jones Co., Wilmington, Del., $66,779; Burke[illegible] Dock Co., Port Richmond, Staten Island, N. Y., $[illegible] Neafie & Levy Ship and Engineering Building Co., [illegible]ladelphia, Pa., $59,000.

BOAT.—Washington, D. C.—Following bid[illegible] re received by Light House Board for building new li[illegible] house tender "Aspen"; (1) delivered at Detroit, (2) at T[illegible]kinsville: Craig Shipbuilding Co., (1) $69,750, (2) [illegible]; Pusey & Jones Co., (1) $70,797, (2) $67,673; N[illegible] York Shipbuilding Co., (1) $72,400, (2) $69,900; Burle[illegible]ydock Co., (1) $73,775, (2) $71,175; Cramp Shipbuildi[illegible]., (1) $78,200, (2) $76,100; Great Lakes Engineering [illegible], (1) $95,000, (2) $96,900; Jenks Shipbuilding Co., (1) $[illegible]; Harlan & Hollingsworth Co., (1) $65,384.

BOILER.—Wilmington, N. C.—Bids were rece[illegible] Oct. 6 by Capt. R. P. Johnston, U. S. Engrs., for fu[illegible]shing boiler for the "Cape Fear." Almy Water Tube B[illegible] Co., Providence, R. I., at $4,500, bidding on their ow[illegible] plans and for delivery f. o. b. Wilmington, were lowest bidders. New York Shipbuilding Co., Camden, N. J., at $4,7[illegible], bidding on engineer's plans and for delivery f. o. b., were next lowest bidder. For delivery on boat at bidder's wharf, Harlan & Hollingsworth Co., Wilmington, Del., were low bidders, at $5,300, on engineer's specifications and $4,900 on their own specifications.

MINING NOTES.

CYANIDE PLANT.—Yreka, Cal.—J. B. Foot, Yreka, will build a cyanide plant in the spring, according to reports.

SMELTER.—Seattle, Wash.—Local reports state that O. W. Ames, Spokane, Wash., and associates, are planning to build a smelter at Bellingham.

STAMP MILL, CYANIDE PLANT.—Cecilville, Cal.—It is stated that the Canyon Mountain Mining Co., of Cecilville, will build a 20-stamp mill and cyanide plant next spring.

SMELTER.—Ely, Nev.—Giroux Consolidated Mining Co. of Ely, is reported to have the construction of a smelter under consideration. J. L. Giroux, Los Angeles, Cal., is Mgr.

MINING MACHINERY.—Corona, Cal.—It is reported here that the United States Tin Mining Co. proposes to install additional machinery at its mines. G. I. Leonard is Gen. Mgr.

BREAKER AND WASHERY.—Pottsville, Pa.—Press reports of Oct. 11 state that Kingsley & Scott, Scranton, Pa., have contract for erecting combined breaker and washery of 1,500 tons daily capacity, at Fremont, near this place, for the Warnke Coal Co.

HOISTING WORKS.—Salt Lake City Utah.—Local reports state that the Yosemite Copper Mining & Refining Co., of Fresno, Cal., will put in hoisting works. The same report states that Crater Creek Mining & Development Co., of Santa Rosa, Cal., W. T. Barnes, Pres., will doubtless equip its Siskiyou County mines with hoisting works.

NEW COMPANIES.—Colo., Mont., Idaho.—Huntington Gold Mining Co. has been incorporated with $500,000 capital stock. H. H. Whittier and J. A. Van Orman, Denver, Colo., are interested.——Colorado Mica Mining & Milling Co., of Cripple Creek, Colo., has been incorporated with $250,000 capital stock. C. H. Glover and J. W. Cook are interested.——Eclipse Gold Mining Co., of Great Falls, Mont., has been incorporated with $75,000 capital stock. Thomas Couch and Geo. H. Stanton are interested.——Sunset National Mining Co. has been incorporated with $500,000 capital stock. J. A. Cannon, Butte, Mont., is interested.——Missouri-Idaho Mining & Milling Co., Ltd., of Lewiston, Idaho, has been incorporated with $1,500,000 capital stock. T. S. Williams, Lewiston, and Adrian Gordon, Polo, Mo., are Directors.

U. S. POSSESSIONS AND CUBA.

BUILDINGS.—Hawaii.—Bids are asked by C. S. Holloway, Supt. Pub. Wks., Honolulu, H. T., until Oct. 26 for constructing normal school buildings at Honolulu.

DITCH, MILL.—Hawaii.—James T. Taylor, Consult. Hydr. Engr., Honolulu, H. T., is at Wailuku superintending the construction of a large ditch from the head of Waihee Valley to the Waikapu lands of the Wailuku Sugar Co. It is expected that it will take about 1½ years to construct the ditch, which is to have a daily capacity of 45,000,000 gallons of water. Considerable tunneling will be necessary. It is believed that a new, larger capacity sugar mill will be built during the coming year.

RAILWAY.—Alaska.—W. B. Poland, formerly Division Superintendent of B. & O. S. W. R. R., with headquarters at Cincinnati, O., is to assume charge of the construction and operation of the Alaska Central Ry. The road is to be located in an almost due north line from Cape Resurrection, 450 miles to the Yukon River. The southern terminus is a natural harbor. The road is built through the only gap in the chain of the Alaska Mountains and the heaviest grade on the final line will be for about six miles, two feet to the hundred. Twenty-one miles of the road has already been constructed, along which 13 hydraulic giants are now in successful operation. It is hoped to push the construction as far as Knik, a distance of 140 miles, by November, 1905, the final extension taking the road into the rich Tanana mining district of the Yukon.

RAILROAD.—Cuba.—The International Lumber Co., 200 Lewis St., New York, has issued $1,000,000 bonds, with the proceeds of which it will build a steam, standard gage railroad, 40 miles long, from Punta through Moron to San Fernando. Bids will be received at once for this work. Bids are also to include tow-boats, lighters, docks, etc. Est. cost, $500,000. The road is to pass through 600,000 acres of mahogany land owned by the company. At least one lumber mill will be established on this tract. Bids will also be received for this work at once. This tract is in the center of the finest sugar districts on the

island and as fast as the timber is removed the cleared land will be used for sugar and tobacco plantations, with necessary equipment. All communications should be addressed to Geo. F. Montgomery, Gen. Mgr., at the New York office.

MEXICO.

RAILWAYS.

CITY OF MEXICO.—International Mahogany Co. which has holdings in Mexico, including 500,000 acres of mahogany land, having a frontage of 40 miles on the Rio Usumacinta River, will build a steam standard gage railroad through this land. The road will be 20 miles long at first and will be extended later. Bids for this work and also for tow boats, docks, lighters, etc., will be received in about 60 days. It is probable that a lumber mill will be erected at some future date. All communications should be addressed to Geo. F. Montgomery, Gen. Mgr., 200 Lewis St., New York City.

CITY OF MEXICO.—Original concession for the construction of the Chimalhuacan & Texcoco Ry. has been modified so as to allow the construction of six kilometers by Dec. 31, 1905, in addition to the ten kilometers already completed. The whole road is to be completed by April 12, 1909. It is now proposed to push the construction of this road in connection with the Rugama project of steel lines, for which company, represented by Alberto Diaz Rugama, holds concessions.

JALISCO.—Jalisco State Government has granted a concession for the construction of a railway from Encarnacion de Diaz to San Lorenzo Espinacas on the line of the Mexican Central.

TECANECAPA.—The Vera Cruz & Pacific R. R. Co. is stated to be studying a project for a narrow gage branch to unite the stations of Las Palmas, of the Mexican, and the town of Tecanecapa, near San Miguel, Epatlaco. R. B. Pegram, Orizaba, Vera Cruz, is Gen. Mgr.

TOLUCA.—Department of Communications has granted concession to American capitalists to build a 200-mile railroad. The road will start at Toluca and will extend in two routes, one going by way of Tenango and near Zacualpam. The other starting from Toluca will extend through the Sultepec and Temascaltepec mining districts, passing Texcaltitlan and continuing west to Tejupilco and state line of Morelos. Preliminary surveys for this latter route have already been started. J. B. Hollins, New York City, is interested.

STREET AND ELECTRIC RAILWAYS.

COLIMA.—D. G. C. MacNeil, of Guanajuato, Mex., has bought the Ferrocarril Urbano de Colina (city and suburban railroad of Colima). Several improvements will be made to the line, and it is expected to operate it by electricity by next year.

BRIDGES.

CHIHUAHUA.—The five-span iron bridge over the San Pedro River, on the line of the Mexican Central Ry., in this state, lately washed out, is stated to have been completely destroyed, and a new structure will be required; and a change of location of the line, so as to cross the river some distance to the west of the old bridge, is under consideration. Lewis Kingman, City of Mexico, is Ch. Engr.

BUILDINGS.

CITY OF MEXICO.—H. L. Hall, W. B. Murray and Carlos Rivas, of this city, are interested in a project of organizing a company with a capital of $1,000,000 to erect hotel buildings in the principal cities of Mexico.

JALAPA, VERA CRUZ.—Mexican Construction & Engineering Co., City of Mexico, has the contract for building a new jail at this place. This company is also employed in putting a new roof on the state capitol building here.

WATER-WORKS.

CITY OF MEXICO.—The project to sink artesian wells in the northern part of the City of Mexico to increase the water supply, is being considered by the municipal authorities and the commission on water supply of the Federal District.

COAHUILA.—Department of Fomento has granted a concession to agriculturists of Monclova for the use of the Salinas Brook for irrigation purposes.

DURANGO.—Application has been made by numerous residents of Ixtampa el Alto, Durango, to use the waters of the Dominco River for irrigation purposes.

MONTEREY.—Monterey Water Co., of which J. D. Stocker, Scranton, Pa., is Pres., is stated to have concluded all arrangements with the state and municipal governments for immediate construction of water-works and drainage for this city. E. Sherman Gould, Consult. Engr., 220 West 57th St., New York City, left for Mexico Sept. 26 in regard to this project. He expects to return to New York about Nov. 1.

NUEVO LEON.—General Francisco Naranjo, having secured the federal concession, is preparing to construct a large irrigating system in the Lampazos district, state of Nuevo Leon. Water will be diverted from the Salado River.

MANUFACTURING PLANTS.

CITY OF MEXICO.—Compania Manufacturera de Calzado Patentado, S. A., has been organized here for the purpose of manufacturing leather sandals. The company has a capital stock of $30,000. Jose C. Lugo, Palma No. 3, this city, is at the head of the company.

CITY OF MEXICO.—Advices from this city state that Capt. Charles Holt, James A. Roberts, Lyman S. Andrews, A. B. Calvin and other New York men, who comprise the syndicate which recently purchased Mount Popocatepetl Volcano, have applied to the Mexican Government for a concession to establish a large sulphur refinery at the foot of the volcano. It is said that the syndicate has signed a contract to furnish Perkins, Goodwin & Co., New York, with 200,000 tons of sulphur a year.

DURANGO.—Henry Smith, Gen. Agent National R. R. Co. of Mexico, with headquarters at San Antonio, Tex., is promoting the establishment of large cement works at this place. He has interested American capitalists in the proposed enterprise, and it is said that they contemplate investing about $500,000 in the plant.

GUADALAJARA.—Audiffred, Gariel & Co. are having a large business block here rebuilt and when the work is completed the structure will be occupied with their hat factory. The improvements will cost about $100,000. C. L. Strange, Arch., can give information.

MAPIMI, DURANGO.—Gilberto Lavin will establish a distillery near here.

MISCELLANEOUS.

CONCENTRATING PLANT.—Guanacevi, Durango.—J. A. Coram, of Boston, Mass., who recently purchased the De Soto mine at this place for $600,00, will, it is stated, erect a 100-ton concentrating plant on the property.

READERS' WANTS

This Department contains special requests and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

SCHOOL OF WIRELESS TELEGRAPHY.—Upper Tract, W. Va.—Lafayette Judy, of Upper Tract, wants to get catalogues of schools of wireless telegraphy.

LIGHT PORTABLE SAW MILLS.—Wilkes-Barre, Pa. —John H. Lanse (or Lane), Wilkes-Barre, writes us that he is in the market for machinery for light portable saw mills.

FROGS AND SWITCHES.—Pittsburg, Pa.—Geo. E. Ventress, 3417 Boquet St., writes us that he wants to get in correspondence with manufacturers of frogs and switches.

ELECTRIC SUPPLIES.—Mexico.—Van Voorhis Bros., Engrs., Monterey, Mex., write us that they are in the market for electric supplies for the proposed electric plant for Montemorelos.

CANNING MACHINERY.—Cincinnati, O.—W. L. Chandler, Mgr., Dodge Mfg. Co., 120 W. 3d St., writes us that he wishes to be placed in communication with manufacturers of canning machinery.

BY-PRODUCT COKE OVENS.—Roanoke, Va.—Jno. A. Pilcher, Mech. Engr., N. & W. Ry., Roanoke, writes us that he wants the names and addresses of firms constructing by-product coke ovens.

OATMEAL MACHINERY.—Brooklyn, N. Y.—W. M. Alling, 403 8th St., Brooklyn, writes us that he wants the addresses of firms manufacturing oatmeal machinery, or of agents handling such material.

FLOUR MILL MACHINERY.—New York, N. Y.—M. H. Avram, 148 E. 83d St., N. Y., writes us that he wants the addresses of firms making flour mill machinery, and requests that catalogues be sent him.

FIRE BRICK AND ENGINES, BOILERS AND PIPING. —Cortland, N. Y.—The Technical Investigation & Construction Co., 712 Dillaye Bldg., Syracuse, N. Y., writes us that at Cortland a building is being built for the manufacture of milk flour, and the above-mentioned supplies will be wanted.

PORTABLE BOILER AND ENGINE.—Reidsville, N. Y. —Jos. Walker, contractor, Mariners Harbor, S. I., N. Y., and Reidsville, N. Y., writes us that he is in the market for a 35-HP. portable boiler and engine.

ELEVATOR, ELECTRIC DUMB WAITERS AND COLD STORAGE PLANT.—Philadelphia, Pa.—Willis G. Hale, Arch., writes us that he is in the market for the above in connection with a 6-story flat building which he is planning.

GASOLINE DRIVEN HOISTING ENGINES.—Carlisle, W. Va.—Robt. L. Totten, C. E., Carlisle, writes us that he wants to be placed in correspondence with firms making gasoline driven d. c. s. d. hoisting engines with one or two independent spools, for use in erecting trestle work.

ROCK DRILLS, EXCAVATING MACHINERY, DUMP CARS, STEEL RAILS, DYNAMITE AND POWDER.—Winnipeg, Man., Can.—H. S. Hancock, Jr., P. O. Box 68, Winnipeg, writes us that he wants the names and addresses of firms manufacturing rock drills and machinery for rock excavation, light dump cars, to be pushed by hand or horse, and to run on 20-30-lb. rails, steel rails for the above, and dynamite and powder.

PUMPING MACHINERY, STANDPIPE, WATER PIPE, HYDRANTS, GATE VALVES, BOILER, ETC.—Eagle Lake, Tex.—F. L. Smith, Jr., Mgr., Eagle Lake Water Co., writes us that the company wants prices at once with following supplies for the proposed works: one 12 × 7 × 10 × 12 in. compound duplex pump, one 10 × 7 × 10-in simplex pump, standpipe 120 × 12 ft., 200 tons 4, 6 and 8-in. c. i. water pipe, 15 hydrants, gate valves and specials, and 40-HP. return tubular boiler, etc.

CYANIDE PLANT.—Zacatecas.—A cyanide plant to treat at least 50 tons daily is to be erected at La Mora mine, near the city of Zacatecas. B. Clark Wheeler, formerly of Denver, Colo., is operating the mine.

MILL.—City of Mexico.—M. C. Parke is developing a promising gold prospect in the Inde District, state of Durango, and is said to intend to erect a mill on the property.

MINING MACHINERY.—Jimulco.—Zacatecas Mining Co., operating a copper property near here, will, it is stated, install modern machinery at the mine.

REDUCTION PLANT.—City of Mexico.—It is stated that the Pinos Altos Mines Co. is to erect a large reduction plant, and also a large electric power plant. An abundant water power, capable of developing 2,500 HP., exists within 15 miles of the mine. F. M. Ray is Gen. Mgr. and R. C. Thayer, Colorado Springs, Colo., is Attorney.

REDUCTION PLANT.—Pinos Altos, Chihuahua.—Pinos Altos Mines Co. contemplate erecting a large reduction plant and an electric plant here. E. M. Ray is Gen. Mgr.

STONE QUARRY.—Apizaco, Tlaxcala.—Alfredo Jiminez, of the City of Mexico, who has $300,000 contract for furnishing stone for the construction of the new building for the department of communications and public works of the Mexican Government, is arranging to operate the stone quarries at this place on a large scale.

STAMP MILL.—Chihuahua.—The capacity of the stamp mill at the Lluvia de Oro mine, state of Chihuahua, is to be increased from 20 stamps to 100 stamps. Harry E. Cary, Pres. and Gen. Mgr., 5 Nassau St., New York.

STAMP MILL AND CONCENTRATOR.—Durango.—Carilane Mining & Milling Co., of Mexico, which has lately taken over the Carilane group of mines situated 100 miles west of Durango, is preparing to erect a 500-ton mill and concentrator. The headquarters of the company are in Chicago, Ill.

VENTILATING EQUIPMENT, ETC.—Coahuila.—Mexican Coal & Coke Co., operating at Las Esperanzas, state of Coahuila, is about to install considerable new machinery, including ventilating apparatus. Edwin Ludlow is Gen. Mgr.

WOODS, COLONY.—Acapulco.—Rodolfo Brito has obtained a concession from the Mexican Government to exploit woods on the island of Sacrificios, off the Pacific coast. He will also establish a colony on the island.

FOREIGN CONTRACTS—EXPORT NEWS.

ELECTRIC LIGHTING.—England.—Council of city of Leeds has made application for sanction to borrow $500,000 for electric lighting purposes.

ELECTRIC PLANT.—England.—Town Council of Leeds is stated to have decided upon extensions of the electrical plant, mains, etc., at a cost of $280,000.

ELECTRIC PLANT EXTENSIONS.—England.—Corporation of city of Coventry has received sanction to borrow about $150,000 for the extension of the electric plant.

TRAMWAYS.—England.—Advices from Birmingham state that the new corporation tramways bill of that city provide for an expenditure of $5,000,000. This includes the cost of the proposed Harborne tramways.

ELECTRIC SUBSTATIONS, ETC.—England.—Borough Council Committee on Electricity of Borough of Woolwich has recommended the Council to sanction the expenditure of about $150,000 for the purpose of electric substations, cables, etc., to Eltham and Lee Green.

ELECTRIC RAILWAY.—China.—Bids are asked until Mar. 31 for the construction and operation of about 24 miles of electric tramways on the trolley system in the streets of the settlement at Shanghai. Address Secretary of the Municipal Council, Shanghai, China. (Advertised, Engineering News.)

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

ELECTRIC RAILWAY.—Russia.—Advices from St. Petersburg state that a project is under consideration to construct a funicular railway, about 15⅓ miles long, worked by electricity, on the line which connects European Russia with Transcaucasia. This funicular railway, which will be the first constructed in Russia, will supersede a mountainous section of the existing Kars line.

COAL UNLOADING APPARATUS.—Belgium.—The Municipality of Brussels will receive tenders until Dec. 15 for the installation of apparatus for the unloading and transport of coal at the gasworks of the city. Plans and specifications are deposited at the gasworks, quai des Usines, Shaerbeek, and at the offices of the management, 8 rue du Chene, Brussels. A set of plans may be obtained at a cost of $10.

ELECTRICAL MACHINERY.—England. — Corporation of Sunderland is asking bids until 12 p. m., Oct. 28 for furnishing two 300 KW., three-phase generators, 5,500 volts, to be coupled to existing Belliss engines; and two 300 KW. synchronous three-phase motors, 500 volts, to be coupled to existing multipolar Silverton dynamos. M. Boweg, Town Clk. John F. C. Snell, Borough Elec. Engr., Town Hall, Sunderland.

RAILWAYS.—Germany.—The Reichstag at its last session passed two laws regarding the construction of railroads in the German Colonies. One of these places $1,856,400 at the disposal of the Togo Protectorate as a loan under certain conditions for constructing a railway from Lome to Palime. The second provides for a guaranty by the Imperial Government of the interest and capital of a maximum loan of $4,998,000 to be issued by the East African Ry. Co. for constructing a railway from Daressalaam to Mrogoro, in the German Southeast African Protectorate. The law also grants a concession and statutes to the East African Ry. Co.

ELECTRIC TRACTION SYSTEM.—Ireland.—Under date of Sept. 12, Edward Harvey, U. S. Vice-Consul at Belfast, Ireland, reports as follows concerning the electric traction system at that place: "At an early date a new system of street tramways will be inaugurated in this city. The present horse cars will be replaced by electric cars at a cost of over $4,000,000. There are now about 40 miles of rails in and about the city, and it is still a matter of controversy whether these rails will be heavy enough for the new traction, but as the system will be extended, ten or twelve miles of new rails will be required in any case. The present cars will be discarded and replaced by one hundred or more new electric cars. The tenders for these have not yet been published by the city corporation."

MINING MACHINERY, ELECTRIC PLANT.—South Australia.—A correspondent in Adelaide, South Australia, writes that an increased impetus has been given to the operation of the silver-lead-zinc mines of Broken Hill by the introduction of modifications of what is known as the Potter process of treatment of zinc sulphide ores. The process in its elementary form consists in passing the crushed ore through a bath of dilute sulphuric acid, the chemical action of which causes the formation of small bubbles of gas on the zinc particles, which can then be mechanically separated during their temporary suspension, due to the buoyancy of the gas. The best forms of mechanism for attaining this object is an open question, each mine so far having adopted a different device, which fact indicates that there is room here for the makers of mining machinery to design a more perfect plant for universal adoption. An apparatus patented by G. Sloyder, of Adelaide, attains as good results as any which have yet come under notice. It consists of a conveyor working the ore through the bath, above which are a number of skimmers for removing the zinc particles as they rise.

Our correspondent writes that a project is now being considered for the establishment of an electric light and power station in the town of Kadina. Rodda & Edwards, Engrs., Kadina, have the matter in hand.

RAILROAD.—Australia.—The Government of Western Australia is advocating the construction of a line of railroad, to be known as the Western Union Ry. of Australia, and which is to connect the railway system of that state with the system of the State of South Australia, and thus with all of the railways of the Australian Mainland. The

State of Western Australia has already passed an enabling act, providing for its share of the construction, and a bill has been introduced in the Commonwealth Parliament, authorizing a permanent survey of the route. An Engineering Commission of which John Gwynneth, of Melbourne, Victoria, was secretary, has made a report on the matter, favoring a route from Kargoorlie via Tarcoola direct to the border. This would make a line 1,100 miles long, not including a 55-mile branch line to Eucla. The Commission stated that a 4 ft., 8½-in. gage would be suitable, and that the road should be one admitting of high speed, with 70-lb. rails, and with a ruling grade not greater than one foot in 80. The cost of construction was estimated at about $22,795,000. An alternative route south of the Gawler Ranges and passing within three miles of Eucla has also been suggested. This line would be 65 miles shorter than the first route and could be constructed for about $3,050,000 less. A pamphlet and report of John Gwynneth on the route of the above mentioned railway may be seen at the office of the Engineering News, 220 Broadway, New York.

RAILWAY.—Bolivia.—W. B. Sisson, formerly Assistant Engineer, B. & O. R. R., with headquarters at Morgantown, W. Va., accompanied by P. A. Beatty, C. S. Herrick and H. C. Robinson, have sailed for South America, where they will make preliminary surveys for about 600 miles of railway in Bolivia. The party will make their headquarters at La Paz, Bolivia, where they will be joined in January by two corps of American engineers. Before this party arrives extensive reconnoissances will be made toward the headwaters of the Amazon and southeasterly toward Argentine.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

HIGH PRESSURE MAINS.—New York, N. Y.—Bids were received by John T. Oakley, Comr., Water Supply, Gas and Electricity, Oct. 12, for furnishing, delivering and laying high pressure fire service mains. Bids were taken on three sections of the work. But as the itemized bids for the work on the three sections were very similar, only those received for Section 1 are given here. The pipe is to stand a test of 700 lbs. per sq. in., at the foundry, and test of 450 lbs. per sq. in., after being laid. The contractor is to take care of all joints, etc., for one year. The total bids for Sections 2 and 3 are as follows: Wm. Bradley, Sec. 2, $317,714; Sec. 3, $262,057. Borough Contracting Co., Sec. 2, $307,039; Sec. 3, $337,335. United Engineering & Contracting Co., Sec. 2, $385,347; Sec. 3, $253,687. M. J. Dady also made informal bid on all three sections. The bids received for Section 1 are as follows: (1) Wm. Bradley, 86th St. and Broadway, New York; (2) United Engineering & Contracting Co., 21 Park Row, New York; (3) Borough Contracting Co., 189 Montague St., Brooklyn; (4) M. J. Dady, 350 Fulton St., Brooklyn:

Bids received at New York, N. Y., October 12, 1904, for Furnishing, Delivering and Laying High Pressure Fire Service Mains.

Items.	Quantities.	(1)	(2)	(3)	(4)
Cast iron straight pipe	3,200 tons	$30.00	$30.00	$28.80	$26.50
Cast iron special castings	250 "	100.00	102.00	109.20	110.00
Steel castings	35,000 lbs.	.07	.07	.10	.12
20-in. pipe, including excavation, etc	8,000 lin. ft.	1.20	1.90	1.30	1.80
16-in. " " " "	7,800 "	1.05	2.15	.95	1.50
12-in. " " " "	16,000 "	.85	1.35	.80	1.30
8-in. " " " "	2,100 "	.75	1.25	.65	1.20
Extra excavation	3,000 cu. yds.	2.00	2.00	.75	1.00
20-in. stop cocks, furnished and set	24	375.00	455.00	194.00	220.00
16-in. " " "	28	200.00	315.00	150.00	150.00
12-in. " " "	36	110.00	170.00	85.00	100.00
8-in. " " "	220	60.00	95.00	55.00	60.00
Cast iron gate boxes	90,000 lbs.	.02	.03	.03	.03¼
Hydrants, haul and set	220	10.00	24.00	10.00	15.00
Cobble pavement	1,400 sq. yds.	.25	.35	.18	.30
Block pavement	6,500 "	.50	.42	.30	.35
Block pavement on concrete	3,500 "	1.00	3.25	1.70	3.25
Asphalt pavement on concrete	2,000 "	3.50	3.20	3.90	3.00
Brick pavement on concrete	10 "	3.00	3.50	4.00	4.50
Wood pavement on concrete	10 "	3.00	3.75	4.00	4.50
Bluestone curb	450 lin. ft.	.10	.60	.22	.50
Bluestone flag	2,000 sq. ft.	.05	.25	.15	.15
Cement sidewalks	2,100 "	.20	.20	.20	.50
Concrete	100 cu. yds.	8.00	10.00	10.00	10.00
Brickwork	300 "	12.00	20.00	12.50	25.00
Lumber	10,000 ft. B.M.	30.00	60.00	27.00	25.00
Steel shaped I beams	5,000 lbs.	.04	.06	.04	.10
Rock	130 cu. yds.	2.50	6.00	4.00	15.00
⅝-in. corporation cocks	20	2.00	1.00	3.00	15.00
Totals		$218,165	$276,342	$209,752	Informal.

GRADING, FILLING, ETC.—Boston, Mass.—Bids were received by Metropolitan Park Commission Oct. 10 for grading, filling, etc., at Revere Beach Reservation and Lynnway, Revere. Contract was let to E. W. Everson & Co., Boston, his itemized bid being as follows: Earth grading, 10,000 cu. yds., $.30; filling material, $.25; surfacing gravel, 30,000 cu. yds., $1; 8-in. vit. pipe, 350 lin. ft., $.40; 10-in. vit. pipe, 3,200 lin. ft., $.50; 12 in. vit. pipe, 130 lin. ft., $.60; stone drain outlets, 40, $15. Two foot timber barriers, 4,000 lin. ft., $.90; three-foot timber barriers, $1; concrete masonry, 700 cu. yds., $5.50; art. stone coping, 425 lin. ft., $1; brick masonry, 190 cu. yds., $12; concrete edgestone, 26,000 lin. ft., $.35; concrete gutters, 4,000 sq. yds., $.80; granite paving, 1,250 sq. yds., $2.20; walk surfacing, 40,000 sq. yds., $.50; loam surfacing, 1,800 cu. yds., $1.50; broken stone surfacing, $40,000 sq. yds., $.45; wood block paving 5,300 sq. yds., $.30; total, $117,063. J. R. Rablin, Eng.

BRIDGE STEEL, ETC.—Chicago, Ill.—Bids were received by Trustees Sanitary District for erecting superstructures of Ninth St. bridge and 16th St. bridge. The itemized bids for both bridges were very similar, and so only those for the Ninth St. bridge are given here. The three lowest bidders for the 16th St. were Lafayette Engineering Co., $29,080; Roenheld & Gallery, $29,100; Jackson & Corbett Bridge & Iron Work, $30,086. Itemized bids for the Ninth St. bridge were as follows:

Bids received at Chicago, Ill., October 12, 1904, for Erecting the Superstructure of Ninth Street Bridge.

Names of Bidders.	Superstructure Complete.	Extra Medium or Soft Steel, per lb.	Extra Iron Castings, per lb.	Extra Steel Castings, per lb.	Extra Phosphor Bronze, per lb.	Extra Yellow Pine or Oak, per 1,000 ft. B. M.	Extra Creosoted Yellow Pine, per 1,000 ft. B. M.
LaFayette Engineering Co., LaFayette, Ind	$32,300	$0.04¼	$0.04	$0.11	$0.50	$45.00	$60.00
Roemheld & Gallery, Chicago, Ill	32,350	.04½	.04	.10	.60	45.00	55.00
Jackson & Corbett Bridge & Steel Wks., Chicago	33,135	.06	.06	.15	.50	60.00	75.00
Mt. Vernon Bridge Co., Mt. Vernon, O	33,960	.03 5/16	.06¼	.09¼	.55	40.00	50.00
C. L. Strobel, Chicago, Ill	34,010	.04	.04¼	.06	.50	50.00	60.00
Penn Bridge Co., Beaver Falls, Pa	35,889	.04 1/16	.04	.08	.40	40.00	60.00
Chicago Bridge and Iron Works, Chicago, Ill	36,172	.04½	.06	.10	.50	40.00	50.00
Joliet Bridge and Iron Co., Joliet, Ill	36,600	.03¾	.06	.09	.50	45.00	60.00
Moravia Construction Co., Chicago, Ill	37,575	.03½	.03	.08	.50	50.00	50.00
Wisconsin Bridge and Iron Co., Milwaukee, Wis.	38,000	.0433	.0448	.0664	.29	50.00	82.00
King Bridge Co., Cleveland, O	39,286	.04¼	.06	.07½	.40	40.00	60.00

DREDGING.—New York, N. Y.—Following bids per cu. yd., scow measurement, were received at U. S. Engineers' Office, Oct. 11, for dredging in Passaic River, N. J.: Coastwise Dredging Co., Atlantic Bldg., Norfolk, Va., 23.9 cts.; International Contracting Co., 17 Battery Pl., New York, 30 cts.; P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., 19.8 cts.; John Dunfee & Co., 78 Broad St., New York, 25½ cts.

*WATER PIPE, SPECIALS, GATE VALVES.—Atlantic City, N. J.—Bids were received by Board Water Commissioners, Oct. 11, for furnishing water pipe and specials, and gate valves, contract for the former being let to U. S. Cast Iron Pipe & Foundry Co., Philadelphia, Pa., at the following bid: 4-in. pipe, 50 tons; 6-in. pipe, 3 tons; 8-in. pipe, 85 tons; 10-in. pipe; 110 tons; 12-in. pipe, 155 tons each at $22.20; 30,000 lbs. special castings, 2.5 cts.; total, $9,696. Bids received for furnishing gate valves were as follows:

Bids received at Atlantic City, N. J., October 11, 1904, for Furnishing Water Pipe and Specials and Gate Valves.

Bidders.	4-in. valves. 54	6-in. valves. 15	8-in. valves. 13	10-in. valves. 8	12-in. valves. 13	14-in. valves. 1	Total.
Kennedy Valve Co., 57 Beekman St., New York	$8.25	$10.25	$16.00	$23.00	$30.00	$48.00	1,321
C. W. Thomas, Detroit, Mich	6.90	10.50	15.95	22.50	32.50	47.50	1,387
Frank W. Dilks, 535 Arch St. Philadelphia	6.65	11.10	16.60	23.85	30.25	48.25	1,374
Rensselaer Mfg. Co., Troy, N. Y	7.00	11.50	17.00	23.00	30.00	50.00	1,395*
J. C. Thompson & Co., Van Horn and Sophia Sts., Philadelphia	6.50	10.85	16.20	23.75	30.50	43.75	1,375
Fairbanks Co., 705 Arch St., Philadelphia	6.75	10.50	16.00	23.00	29.50	50.40	1,348
Fairbanks Co., 705 Arch St., Philadelphia	5.75	8.50	13.00	21.00	27.50	45.60	1,178†
Eddy Valve Co., Waterford, N. Y	7.50	11.50	17.25	23.25	32.00	50.00	1,454‡

*Also made lump bid of $1,360. †Informal bid. ‡Also made lump bid of $1,384.

LEVEE WORK.—New Orleans, La.—Board State Engineers are stated to have let contracts Oct. 5 for following levee work: Cottonwood Levee, East Carroll Parish, enlargement of levee, 100,000 cu. yds., Helgasen Bros., 13.7 cts. per yard. Longwood Levee, East Carroll, Parish —20,000 cu. yds., enlargement, Helgasen Bros., at 17.27 cts: Pontchartrain District, St. Rose-Nita Levees, St. James Parish, enlargement and new levees, 100,000 cu. yds., M. L. Linnan, 13.24 cts. Fifth Louisiana District, lower Concordia extension, Concordia Parish, 60,000 cu. yds. enlargement, S. R. Bobbitt, 15.70 cts.

*WATER PIPE.—Camden, N. J.—Following bid was received by Water Committee, Joseph Potter, Chn., Oct. 11, for furnishing pipe for submerged pipe line across Cooper's Creek: R. D. Wood & Co., Camden, N. J., bell spigot, c. i. pipe, $20.40; flange pipe, $28.40; ball joints machined inside on bearings, $79; 6-in. B. & S. pipe, $21.90. No bid was received for laying the pipe.

EMBANKMENT.—Chicago, Ill.—Following bids were received by Trustees Sanitary District for completing double track embankments near (1) Lemoyne and at (2) Lemont, the former requiring 5,831 cu. yds. in extent and the latter 12,300 cu. yds.: Ross & Curtis Stone Co., Joliet, Ill. (1) $.45, (2) $.47; Fred Boehme, Lockport, Ill., (1) $.35, (2) $.85; Earnshaw & McGaw, Lemont, Ill., (2) $.39; Shannon & O'Callahan, Chicago, (2) $.42; J. J. Brown, Chicago, (2) $.74; Peter O'Laughlin, Chicago, (2) $.87; J. A. Heineman & Co., Chicago, (2) $.90.

INDUSTRIAL NOTES.

JOSEPH T. RYERSON & SON, Chicago, Ill., announce that the Abner Doble Co., of San Francisco, Cal., has been appointed the Pacific Coast representative.

F. T. HARRINGTON, Mexico City, Mex., states that he would like to represent machinery firms in Mexico, as he is in the structural iron business and machinery for mines.

MR. HARRISON SOUDER, 303 Harrison Bldg., 15th and Market Sts., Philadelphia, Pa., announces that he has opened offices at the above address, where he will continue his engineering practice.

THE NATIONAL ENGINEERING CO., 442 Prudential Bldg., Buffalo, N. Y., states that catalogues of jet and surface condensers, cooling systems for condensers, and condensing plant appliances are wanted.

THE AUSTIN MFG. CO., Chicago, Ill., has supplied the following cities with Austin Sprinklers: M[illegible] Philippine Islands; Waco, Tex.; Troy, Ala.; Marsh[illegible]n, Ia.; Pottsville, Pa.; Ripley, W. Va.; Albert Lea, [illegible]

THE TERRITORIAL ENGINEERING CO., [illegible]lahoma City, O. T., informs us that the company w[illegible] recently formed to engage in a general consulting, engineering and contracting business. W. G. Burke, C. E., P[illegible] F. H. Peckham, C. E., Secy. and Treas.; M. L. C[illegible]ngham, C. E., Vice-Pres.

THE WELLMAN-SEAVER-MORGAN CO., [illegible]veland, O., Engineers and Manufacturers, having plants [illegible] Cleveland and Akron, announce that on October [illegible] they opened a New York office, having taken a suite [illegible] offices at 42 Broadway. Mr. Geo. B. Damon has been [illegible]pointed New York Manager.

MR. FREDERIC BROWN, President of the Frederic Brown Co., Ltd., Commercial Engineers, of New Orleans, is visiting New York for a short time and would like to meet owners of patented articles or processes desiring representation in the South. Mr. Brown may be addressed at the Hotel Algonquin, 44th St., between Fifth and Sixth Aves., New York.

THE ROBERTS & SCHAEFER CO., engineers for coal mining plants and coal washeries, with offices in the Old Colony Building, Chicago, and the First National Bank Building, Birmingham, Ala., announce that it has acquired the business of the Stewart Washer Co., of Birmingham. All business will be done under the corporate name of the Roberst & Schaefer Co.

THE RAYMOND CONCRETE PILE CO., 135 Adams St., Chicago, Ill., has been awarded a contract for 1,000 concrete piles by the Krunden-Martin Woodenware Co., of St. Louis, to be driven as foundations for three new buildings. This firm last winter drove quite a number of piles for the Woodenware Co., and as a result of the satisfactory work it was awarded the larger contract.

THE PENNSYLVANIA ENGINEERING & CONST. CO., Johnstown, Pa., announces the opening of an office for the conduct of a general engineering and contracting business at Nos. 305 and 306 Suppes Building, and is prepared to make surveys, plans and specifications for, and to supervise the construction of steam and electric railways, power plants, water-works, sewers, coal tipples, industrial plants, etc.

THE KOPP & CONNER CO., Pittsburg, Pa., announces that the partnership heretofore existing between Geo. L. Kopp and G. A. Conner, under the firm names of The Geo. L. Kopp Co., Geo. L. Kopp & Co., and Kopp & Conner Co., dealing in drawing materials, has this day, October 1, 1904, been dissolved by mutual consent, G. A. Conner retiring. Geo. L. Kopp will continue the business, and all accounts of the former partnership will be settled by him, and all debts owing the partnership must be paid to him.

THE C. O. BARTLETT & SNOW CO., Cleveland, O., report the following recent sales: Buckeye Reduction Co., Findlay, O., one Triumph steam dryer; Mr. S. Mendelson, Elyria, O., one Triumph steam dryer; Binns Stucco Retarder Co., Uhrichsville, O., one Triumph steam dryer; Mr. D. H. Grandin, Jamestown, N. Y., belt conveyor and other machinery; Ohio Sand Co., Conneaut, O., elevating and conveying machinery; Crown Dryer Co., Cleveland, O., elevating and conveying machinery; I. E. Boomer, Detroit, Mich., one Triumph gravel excavator and digger; Lowe Bros., Dayton, O., four special paint machines with motor drives; Mongollon Gold and Copper Co., Cooney, New Mex., special grading machinery; Jas. W. Ellsworth & Co., Cleveland, O., coal elevating and conveying machinery.

THE BURT MFG. CO., of Akron, O., reports the following sales: Five oil filters to its agency at Helsingfors, Finland; three shipments to its representative in Havana, Cuba; four filters, Valparaiso, Chili; oil filter, the Rock Island Arsenal, Rock Island, Ill.; two 8-in. exhaust heads for the Government at Seattle, Wash.; 16 exhaust heads and 9 oil filters, English trade; three oil filters, agency at Calcutta, India; U. S. Steel Corporation, 151 oil filters and 70 exhaust heads; one oil filter, National Steel & Wire Co., New Haven, Conn.; two Warden oil filters, The Lehigh Valley Coal Co.; two 150-gal. oil filters, La Belle Iron Works, Steubenville, O.; six oil filters, St. Petersburg, Russia; 27 oil filters, Genoa, Italy; 12 exhaust and 3 oil filters, Malmo, Sweden; oil filter, Otto Gas Engine Works, Philadelphia, Pa., and an oil filter for the Connersville Blower Co., Connersville, Ind.

THE POWER & MINING MACHINERY CO., 52 William St., New York, has recently closed a contract with Mr. James E. Hooper, of Baltimore, for a 25 × 30, two-cylinder engine, and two No. 8 suction producers, the plant to be installed in his new cotton mill at Woodberry, Baltimore. The engine as installed will have three rope pulleys for driving to the floors of the mill, and the shaft will be extended for a flanged coupling, so that another 25 × 30 two-cylinder engine can be installed at a later date, it being Mr. Hooper's intention to double the mill after the first half is in operation. This is the first installation known of for cotton mill work. The order was obtained after a very thorough investigation on the part of Mr. Hooper and his engineer, C. C. Hedrick, of the Lowell Machine Co. Mr. Hooper's original plan was to install a steam turbine and electric drive, but after going into the matter very thoroughly he decided to abandon the equipment on account of first cost and materially lower efficiencies.

THE WELLMAN-SEAVER-MORGAN CO., Cleveland, O., has been awarded by the Board of Trustees of the Sanitary District of Chicago the contract for the turbine water wheel equipment for the new power house of the Chicago Drainage Canal. This is the second largest installation of water power equipment contracted for in the United States; the largest single water power equipment previously contracted for being the one also built by this company at Sault Ste. Marie, Michigan, for the power house of the Lake Superior Power Co., and to consist when completed of 50,000 HP. The Chicago Drainage Canal power station, which is to be located near Joliet, will be the most complete and up-to-date plant in the

United States, and a model of its kind in every detail. The equipment will comprise four 6,000 HP. units of turbine wheels, which will be direct connected to electric generators. There are also two exciter units of 600 HP. each included in the contract. The contract will require about one year for completion.

THE HEISLER PUMPING ENGINE CO. has moved its office from Pittsburg, Pa., to the new plant erected at St. Marys, O. The machine department is located in a modern structural steel brick lined building, having a floor space of 22,500 sq. ft., the erecting floor at present being served with a 15-ton Alliance Machine Co. electric crane, having 65-ft. span. The structural steel is suitable for a 30-ton crane. The machinery is electrically driven. The large tools individually, and the smaller tools in groups. The sewerage system will permit foundry pits to be 10 ft. if desirable. The site contains 33 acres and has switch connection with two railroads. The company is building a triple expansion high duty engine for the Staten Island Water Co., of New York City, N. Y. The engine is to be erected some time in December at Staten Island, New York City.

THE NEW YORK CONTINENTAL JEWELL FILTRATION Co., 15 Broad St., New York, has recently made the following sales: For apartment houses, residences, office buildings, etc.: Grand Hotel, Caledonia Springs, Prov. of Quebec, Canada; St. Joseph's Hospital, Ft. Wayne, Ind.; New York Telephone Co., New York City, No. 15 Dey St.; N. Y. Magdalen Benevolent Society, Inwood, N. Y.; Racquet and Tennis Club, New York City, No. 24 West 43d St.; Dr. Reginal Allen, Philadelphia, Pa.; J. C. Wilson, Philadelphia; S. Geikler, Philadelphia; Thos. W. Eynon, Philadelphia; Mrs. Isaac Starr, Philadelphia; Miss M. Grace Hall, Philadelphia; C. J. String, Philadelphia; Miss Hubbell, Philadelphia; Rev. E. S. Lowery, Philadelphia; W. H. Farwell, Philadelphia; C. J. Hatfield, Philadelphia; Mrs. Wm. McLean, Philadelphia; Philip Wright, Philadelphia. For miscellaneous uses: Eynon & Evans (Brass Foundry), Philadelphia, Pa.; Rotograph Co., No. 771 East 164th St., New York City; J. A. Roebling's Sons Co. (second order), Trenton, N. J.; W. H. Tolhurst & Son, Troy, N. Y.; Lehigh Valley Railroad Co., Easton, Pa.; Freund Bros. (photographers), Atlantic City, N. J.

THE B. F. STURTEVANT CO., Hyde Park, Mass., announces that among the many recent installations for heating and ventilating public buildings is that for the Worcester City, Hospital at Worcester, Mass. The buildings, seven in number, are located a short distance from the center of the city at the top of a long hill and are therefore exposed to severe weather in the winter. A Sturtevant fan draws the fresh air from the top of the building, a distance of about 45 ft. from the ground, through brick flues, and into galvanized iron ducts to the tempering coil, where the chill is taken from the air. It is then drawn through the fan which runs at a slow speed, and forced through the heater containing coils of 1-in. steam pipes enclosed in a fireproof steel plate jacket and thence to the plenum chamber, which is divided horizontally into two chambers, one for the hot air and one for the tempered air, the latter passing underneath the heater from the fan. By means of mixing dampers, automatically controlled, the air is mixed to a desired temperature and is forced by the pressure from the fan through the distributing ducts to the different rooms. To assure positive ventilation in the rooms, a Sturtevant electric propeller fan located in the basement draws the air through registers in the floor into galvanized iron ducts and discharges it outside.

THE B. F. STURTEVANT CO., Boston, Mass., announces that the new Minnesota State Capitol, at St. Paul, Minn., which has been in process of construction for the past few years, is now nearly completed. This building containing about 4,000,000 cu. ft. of contents is heated and ventilated by the fan system of forced air circulation, lighted by electricity, provided with hydraulic elevators and in every particular is thoroughly modern in design and construction. The heating and ventilating apparatus is grouped at five points, each apparatus consisting of a 9 × 4½ electrically driven Sturtevant steel plate fan, the combined normal capacity of which is 225,000 cu. ft. of air per minute, and a Sturtevant heater of ample capacity. These apparatus are operated in connection with five ventilting fans exhausting air from the various rooms. The electric lamps for illuminating purposes require an equivalent of 7,000 16-candle power lamps. The power house is about 367 ft. away from the main building, and is connected to it by means of an underground tunnel. The boiler plant consists of 4 water tube boilers built by the Erie City Iron Works, draft for which is supplied by 2 7-ft. Sturtevant induced draft fans driven by direct-connected Sturtevant engines. The chimney is but 15 ft. above the roof, and conforms harmoniously with the style of architecture of the main building. These induced draft fans are so arranged that they may or may not be used with the economizers, and have a capacity to deliver 16,000 cu. ft. of air at 60° or 33,000 cu. ft. if the gases of combustion are at 400°, allowing 18 lbs. of air per lb. of coal.

THE POWER & MINING MACHINERY CO., 52 William St., New York, has been awarded a contract by the Western Gas & Fuel Co. for one two-cylinder American-Crossley gas engine, 28 × 36 ins., single-acting; speed, 130 r. p. m.; normal brake HP., 510; maximum, 570; direct connected to two Ingersoll-Sergeant 14¼ × 36-in. single-acting compressors; cylinders located in tandem to the gas cylinders. This plant is to be used for compressing gas entering the cylinders at an initial pressure of 50 lbs., and discharging at 350 lbs. Making the compressors single acting and in tandem with the gas engine cylinders, not only gives the advantage of direct connection, but does away with the necessity of high pressure stuffing boxes in the gas compressor cylinder heads. The gas will enter the compressor cylinder at the end nearest the gas engine and will pass through the piston inlet valve to the other side on the forward stroke of the engine, compressing on the return stroke. This construction permits of minimum clearance in the compressing end of the cylinder and at the same time effectually prevents any chance of leakage of gas into the room; any leakage past the piston, as will be seen, returns to the inlet side. The company's guarantees cover the gas consumption of the engine when operating at rated load, at 500 brake HP., at which load the company has guaranteed a gas consumption of 11½ cu. ft. of natural gas having a calorific value of 1,000 B. T. U. per cu. ft., and have further guaranteed that with 1,000 cu. ft. of gas used in the gas engines, of this value, 36,480 cu. ft. of gas per minute, measured at atmospheric pressure, will be delivered.

THE ACME WATER STORAGE & CONSTRUCTION CO., Park Row Bldg., New York, is exhibiting in block 44, aisle 9, Machinery Building, at the St. Louis Fair, an apparatus which is intended to make possible the constant supply of water under high pressure, as, for instance, for tall buildings, country residences and small municipal water-works, displacing water towers or elevated tanks. The system involves the use of two air tight tanks, a pump and an air compressor. One tank is kept constantly charged with air at a high pressure, while the other contains both air and water, the air being admitted to the second tank from the first by a pressure-reducing valve set to give constant pressure in the second tank and the water being forced into the tank by a pump. The entire contents of the water tank may be used under a constant pressure without operating either the compressor or pump, and it is necessary to run the latter only at such times as are found convenient for charging the system. As the water is pumped into the water tank the air is removed by the compressor and returned to the air tank, so that the water pump always operates against a uniform pressure. The apparatus exhibited includes two tanks, each 5 ft. in diameter and 10 ft. long, and an air compressor and a pump, operated by a single 5 HP. gas engine. The pump is of the Deane vertical triplex, geared type, and is fitted with 4-in. cylinders, the plungers in which have a stroke of 6 ins. These pumps are designed for a pressure of 100 lbs. per sq. in. and a speed of 47.3 revolutions per minute, the speed of the gas engine being 280 revolutions. This pump is of interest, as it indicates the possibilities of pumping with gas or gasoline engines in isolated places where electric power is not available or is too expensive, and where the amount or continuity of the service does not warrant the installation of steam-pumping apparatus. This type of pumping equipment seems well adapted for all places where the service is intermittent.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

WASHERS, RIVETS, NUTS AND CHAINS.—Allegheny Forging Co., Pittsburg, Pa. Four folders; 3½ × 6 ins.

These folders give dimensions, weights and prices.

LATHES, DRILLS AND TOOLS.—Gisholt Machinery Co., Madison, Wis. 8 × 10 ins.; pp. 14.

Lathes, boring machines and tool grinders are illustrated and described in this catalogue.

CYPRESS TANKS.—Ralph B. Carter, 47 Dey St., New York City. Paper; 6 × 9 ins.; pp. 8.

Prices and dimensions of tanks and some incidental matter are given in this pamphlet.

RUBBEROID ROOFING.—Standard Paint Co., 100 William St., New York. 3½ × 6 ins.

This folder gives some facts with regard to rubberoid roofing, accompanied by illustrations showing its use.

CHILIAN MILLS.—The Wellman-Seaver-Morgan Co., Cleveland, O. 6 × 9 ins.; pp. 16.

The Akron Chilian mill for the wet grinding of metalliferous rock is illustrated and its chief features briefly set forth.

PUMPS AND HYDRAULIC MACHINERY.—The Goulds Mfg. Co., Seneca Falls, N. Y. Paper; 3 × 6 ins.; pp. 120; illustrated.

The catalogue is devoted chiefly to hand and small power pumps and to pump accessories.

LOCOMOTIVES.—Atlantic Equipment Co., 25 Broad St., New York, N. Y. Paper; oblong; 9 × 6 ins.; pp. 24.

This is an illustrated list of locomotives for contractors, switching or general railway service. They are engines repaired and rebuilt by the American Locomotive Co.

TESTING LABORATORY.—H. M. Deavitt, Chemist, 159 La Salle St., Chicago. Paper; 9½ × 12½ ins.; pp. 4; illustrated.

This is a reprint of an article on the testing materials used in telephone manufacture, as conducted by the Deavitt laboratory.

STEAM SHOVEL.—Atlantic Equipment Co., 25 Broad St., New York, N. Y. Paper; oblong; 9 × 6 ins.; pp. 18; illustrated.

The Robinson steam shovel with direct hoist, as described recently in our columns, is here described and illustrated in detail.

FANS AND BLOWERS.—American Blower Co., Detroit, Mich. 3½ × 4½ ins.; pp. 32.

This catalogue is primarily a price-list of the different sizes and types of "A. B. C." fans and blowers made by this company. Tables give the dimensions and other data relating to the blowers.

BLAST FURNACES.—The William B. Pollock Co., Youngstown, O. 9 × 11 ins.; pp. 64.

This catalogue is in reality a pictorial review of the work erected by this company, consisting of a large number of photographs of interior and exteriar views of blast furnaces, plants and equipment.

ELECTRIC CURRENT RECTIFIER.—The Electrical Appliance Co., Cincinnati, O. Paper; 9 × 12 ins.; pp. 4; illustrated; also pamphlet, 5½ × 8½ ins.; pp. 4.

The Churcher "rectifier" is designed to receive any alternating current and deliver direct-current for operating electrical apparatus, dental machinery, etc., and for charging the batteries of automobiles.

THE ABELL REFUSE FURNACES FOR DESTRUCTORS AND STEAM RAISING.—W. Price Abell, M. Inst. C. E., Duffield, Derby, England. Paper; 6 × 10 ins.; pp. 10; illustrated.

Besides town refuse, the furnaces described herein are designed to burn megass, sawdust, tar and coke breeze, the latter presumably as a fuel for steam raising. Natural or forced draft, fixed fire bars and moveable self-cleaning fire bars are used.

WIRES AND CABLES.—The Safety Insulated Wire & Cable Co., 114 Liberty St., New York, N. Y. Paper; 6 × 9 ins.; pp. 34; illustrated.

This is a catalogue and price-list of the company's manufactures for various purposes, together with tables of dimensions, weights, resistance, fusing currents, etc. The illustrations show buildings, ships, railways, etc., using these products, and also views of the laying of submarine cables.

ARTESIAN WELLS. — Thomas B. Harper, Jenkintown, Pa. Paper; 6 × 3 ins.; pp. 4; illustrated.

A title page, a bit of text on the advantages of artesian wells, statistics of a number of wells drilled by Mr. Harper, a misleading half-tone view of three bottles of water, make up this folder. The misleading portion of the half-tone is a bottle of water apparently alive with wrigglers labeled "Schuylkill Water Filtered (mud out, sewage remaining.)"

MISCELLANEOUS MACHINES AND SUPPLIES FOR SHIPS.—Horace See, 1 Broadway, New York. Cloth; 6 × 9 ins.; pp. 16.

This catalogue contains on each page a photograph of some well-known ship or cruiser, and, on the page opposite, an advertisement of some manufacturer of or dealer in supplies or machines pertaining to vessels, such as ice machines, compositions for protecting steel, marine pumps, metallic packing, electric signals, sails and flags, etc.

PUNCHING AND SHEARING MACHINERY.—The Long & Allstatter Co., Hamilton, O. Paper; 6½ × 9 ins.; pp. 160; illustrated.

This is a complete catalogue of a great variety of tools for light and heavy work, and also for such special work as the notching of armature disks, punching splice bars, coping beams, etc. A number of very large multiple punches are shown, and motor driven punches with automatic spacing tables. Helve and drop hammers, tire welding hammers and bulldozing machines are also included.

CONCRETE BLOCK CONSTRUCTION.—Cement Machinery Co., Jackson, Mich. Paper; oblong; 11 × 8½ ins.; pp. 52; illustrated.

This is a collection of circulars and pamphlets bound together in pamphlet shape, all relating to the Normandin machine for making concrete blocks for building purposes, and setting forth the advantages of this system of construction. Plain, ornamental and special blocks are illustrated, and there are views of residences, factory buildings, railway roundhouses, etc., built of blocks made in the Normandin machines.

ROCK EXCAVATION PLANT.—Lobnitz & Co., Ltd., Renfrew, Scotland. 5½ × 8½ ins.; pp. 24.

This interesting catalogue describes and illustrates the Lobnitz patented system of breaking rock, preparatory to dredging it. The rock is shattered by means of a heavy steel cylinder provided with a sharp point. This cylinder is raised and allowed to fall freely, very much as a pile driver operates, the successive blows of the cutting tool acting to shatter the rock into sizes that can be readily excavated by a dredge. Data are given as to the cost of this method of rock excavation.

CONTRACTORS' TOOLS.—W. H. Anderson & Sons, 21 St. Aubin Ave., Detroit, Mich. Three pamphlets; paper; 6 × 9¼ ins.; pp. 40; 6 × 9¼ ins.; pp. 24; 5 × 6¼ ins.; pp. 23; all illustrated.

The first pamphlet is a catalogue of a variety of tools and appliances for grading, sewer and water-works construction, paving, erecting buildings, concrete work, etc.; among the specialties is a barrow for carrying concrete or mortar without slopping. The second pamphlet is devoted mainly to tools used in erecting telephone, telegraph and trolley line poles; it includes a pole hoist or derrick, pike poles, reels for cable and wires, iron cross-arms, etc. The third pamphlet is a price-list of tools used in laying cement sidewalks.

PUBLIC COMFORT STATIONS AND PUBLIC BATHS.—The J. L. Mott Iron Works, 84 to 90 Beekman St., New York City. Paper; 9 × 12 ins.; pp. 32; illustrated.

The absence of public water-closets has long been a reproach, if not a disgrace, to American cities. A very few of our cities have begun to introduce these conveniences. Some of the best and most recent of the stations built in Manhattan and Brooklyn boroughs, New York City, are handsomely illustrated in this pamphlet, both by line drawings and half tone views. Floor plans and views of a public bath in Brooklyn are also given. Besides the illustrations of public water-closets and baths, there are numerous illustrated descriptions, with prices, of water-closets, urinals, sinks, bath tubs and other fixtures.

LIGHT LOCOMOTIVES.—Baldwin Locomotive Works, Burnham, Williams & Co., Philadelphia, Pa. Cloth; 9 × 6 ins.; pp. 68.

This catalogue covers locomotives used for logging, lumber and mine railways, plantation service, railways about industrial plants, contractors' railways and other situations where a lighter locomotive than a standard machine is desired. The locomotives catalogued vary from four-wheel machines of 30-in. gage, weighing as little as 9,000 lbs., up to consolidation locomotives weighing 100,000 lbs. The first part of the book contains a variety of tables and diagrams and useful information for engineers engaged in railway service, relating to train resistance, weights of bulk freights, weights of rails per mile for tracklaying, fuel consumption, tractive power, horse-power of locomotives, etc.

CABLEWAYS AND HOISTING ENGINES.—S. Flory Mfg. Co., Bangor, Pa. 9 × 12 ins.; pp. 162.

The first part of this catalogue is devoted to steam and electric hoisting engines, both large and small; tables of size, weight, price, etc., being given for each type of engine. The second part of the catalogue contains a large number of photographs of cableways used for various purposes, such as dam construction, bridge building, trench excavation, quarrying and the like. These plants are briefly described in text accompanying the illustrations. In addition to these two main features of the catalogue, matter will be found relating to slate factory equipment, such as sawing, planing and grooving machines, drills, etc., Hayward clam-shell and orange-peel buckets, log-skidding plants, self-righting buckets, etc. The catalogue is provided with an index, making it valuable as a permanent reference book.

WATER-WORKS.

Lakeland, Fla.

Sealed proposals will be received by the Bond Commissioners of Lakeland, Fla., at noon on Oct. 27, 1904, for furnishing material, laying pipe, etc. Bids will be received as follows:

1st. Furnishing material.

2d. Work of laying pipes, setting gates, hydrants, etc.

3d. For both furnishing of material, and laying pipes, etc.

The following is an approximate estimate of work done and material to be furnished under this contract:

600 lineal feet 8-in. pipe.
4,450 " " 6-in. "
8,524 " " 4-in. "
30 4-in. fire hydrants, 2 2½-in. hose connections without frost jacket.
15 4-in. valves and boxes.
7 6-in. " "
3 8-in. " "
2 tons special castings.

Separate bids will be required covering furnishing of material and laying pipe.

Each bid must be accompanied with certified check for 5% of bid. Same to be returned to all except successful bidders within ten days after letting.

Bond will be required for 50% of accepted bid. Right reserved to reject any and all bids. Address

W. B. CLAY,
16-1t. Engineer to Bond Commissioners.

Contract for pipe and specials has been made.

300-HP. BOILERS.

Kansas City, Mo.

Sealed proposals will be received by the Board of Public Works, at their office in the City Hall, Kansas City, Missouri, until 2 o'clock p. m., October 29, 1904, for the construction, delivery and erection of two Water Tube Boilers, each 300 horse-power, in every way complete for continuous service upon proper foundations provided by the City, in the present building at Quindaro Pumping Station, Kansas, and equipped with stokers of the chain grate type, all to be in accordance with the plans and general specifications on file in the office of the Water Department of Kansas City, Missouri.

INSTRUCTIONS.

All proposals must be made upon the printed forms furnished by the Board of Public Works.

Each proposal must be submitted in a sealed envelope, and endorsed upon the outside, "Proposal for Constructing and Erecting Boilers, Kansas City, Mo.," and addressed "Board of Public Works."

Each proposal must be accompanied by plans and specifications in sufficient detail to fully and distinctly show and describe the Boilers and Stokers proposed to be furnished, with dimensions of foundations and settings, details of construction, thickness of metal and weights of the Boilers and Stokers.

No proposal will be considered unless accompanied by cash, or a certified check on a solvent Kansas City bank or trust company, made payable to the City Comptroller, amounting to One Thousand ($1,000) Dollars.

The Board of Public Works does not bind itself to accept the lowest, or any bid offered, and reserves the right to reject any or all bids, or to waive any informality in the bids, when it seems to be to the interest of Kansas City so to do.

EVERETT ELLIOTT,
15-2t Secretary Board of Public Works.

IRON BRIDGE.

Towson, Md.

Sealed bids, addressed to the County Commissioners, Annapolis, Md., and marked "Proposals for Sweetser Bridge," are invited until 11 o'clock a. m. Tuesday, November 1, 1904, for the construction of an iron bridge over the Patapsco River, at or near the site of the present wooden structure known as Sweetser Bridge. A certified check for one thousand ($1,000) dollars must accompany each bid. Plans and specifications may be seen and blanks for proposals obtained at the offices of the County Commissioners at Towson, Md., and at Annapolis, Md. The right is reserved to reject any and all bids.

COUNTY COMMISSIONERS
of Anne Arundel County, Md.,
HIGHWAYS COMMISSION
16-2t of Baltimore County, Md.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 15, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 22d day of November, 1904, and then be opened, for the construction, complete, of the U. S. Post Office and Custom House, Georgetown, S. C., in accordance with the drawings and specifications, copies of which may be had at this office or the office of the Postmaster at Georgetown, S. C., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 16-2t

WATER-WORKS.

NOTICE TO CONTRACTORS.

Knoxville, Tenn., Oct. 8, 1904.

Bids will be received by the Knoxville Water-Works Commission, Knoxville, Tenn., until 2 p. m. of October 28, 1904, for furnishing and constructing a system of waterworks or parts thereof; in accordance with the plans and specifications of the Commission.

Bids must be sealed and addressed to the Secretary of the Knoxville Water-Works Commission, Knoxville, Tenn.

Said sealed bids must be endorsed on the face "Proposal for Water-Works."

The specifications are divided into sections as follows:

Section 1. Cast-iron pipe and specials for pipe line system.
Section 2. Fire hydrants, gate valves and valve boxes.
Section 3. Pipe laying and standpipe connections.
Section 4. Standpipes and foundations.
Section 5. Intake, screen equipment and river protection.
Section 6. Pumping station.
Section 7. Low service pumping engine.
Section 8. High service, high duty pumping engines.
Section 9. Boilers, equipment and stack.
Section 10. Condensers, pumps, boiler feed pumps, feed water heater, pumping station pipe connections, except main water suction and discharge connections.
Section 11. Settling basins.
Section 12. Filter house.
Section 13. Filters and complete filter equipment, including coagulating apparatus.
Section 14. Clear water reservoirs.
Section 15. Pipe connections between screen well pumping station, settling basins, filters and clear water reservoirs including sewers, waste and drain pipes and connections.
Section 16. Grading premises, high water embankment, and outside drainage.
Section 17. Engineer's residence.
Section 18. Coal conveyer and cinder disposal equipment.
Section 19. Electric plant, heating system and telephones.
Section 20. Wrought iron pipe, miscellaneous materials, tools and supplies.
Section 21. Meters and meter boxes.

Bids may be submitted on each section complete or as a total for the sections bid on.

All bids must be made on blank forms which will be furnished by the commission.

Certified check must accompany bid in the sum of three per cent (3%) of the amount of bid; minimum amount of check, five hundred ($500.00); maximum check required, five thousand dollars ($5,000), payable to the order of the treasurer of the Knoxville Water-Works Commission.

Plans and specifications are on file and may be seen at the office of the Secretary of the Knoxville Water-Works Commission, Knoxville, Tennessee, and at the office of Owen Ford, Consulting and Supervising Engineer, 710 Security Building, St. Louis, Missouri.

The Commission reserves the right to reject any or all bids and to waive informalities.

J. ALLEN SMITH,
NORMAN B. MORRELL, Chairman.
Secretary. 16-2t

STREET RAILWAY FRANCHISE.

Shanghai, China.

The council invites tenders for the construction and operation of about 24 miles of electric tramways on the trolley system in the streets of the Settlement of Shanghai; alternative proposals are desired for single trolley and double trolley lines.

A proforma contract is open to inspection by tenderers, and copies will be supplied to applicants by the Council's agents:

London: Messrs. John Pook & Co., 63 Leadenhall St.

New York: Messrs. Fearon, Daniel & Co., 96 Wall St.

from whom further information may be obtained. While the conditions stated in the proforma contract are laid down for general guidance the council desires it to be expressly understood that they are open to such modification as tenderers may consider necessary.

A deposit of £5,000, or certified security to that amount, will be insisted upon, payable at date of signature of contract, and forfeit if the concession is not availed of.

Sealed tenders endorsed "Tender for Tramway Concession" must be sent to the Secretary, Municipal Council, Shanghai, and must be received on or before the 31st March, 1905. 16-6t—eow

BRIDGE SUPERSTRUCTURE.

Calgary, Alberta, Can.

Sealed tenders, endorsed "Tenders for bridge superstructure," will be received by H. Gillies, City Clerk, Calgary, until noon on November 12th, 1904, for constructing, delivering and erecting a 180-ft. steel truss bridge in the city of Calgary, Alberta, on foundations prepared by the City.

Specifications and form of tender may be obtained from the City Engineer.

No tender necessarily accepted.

F. W. THOROLD, B. A. Sc.,
City Engineer, Calgary.
THOS. UNDERWOOD,
Chairman Public Works, Calgary.

Specifications may be seen at the office of Engineering News, 220 Broadway, New York. 16-2t

WATER-WORKS IMPROVEMENTS.

OFFICIAL NOTICE.

(Published by authority of the Village Board of North Milwaukee.)

Sealed proposals will be received at the office of the Village Clerk of North Milwaukee until 8 p. m. of November 1, 1904, for doing all the work and furnishing all of the material for laying and constructing a line of four-inch water pipe on 37th St., from North Milwaukee Ave. to Harrison Ave., and from Villard Ave. to a point one hundred and twenty feet north of the north line of Custer Ave. in the Village of North Milwaukee to connect with and become a part of the present water system of the said village.

The work to be done consists of excavating and leveling trenches, in laying and setting pipes, hydrants and special castings, in furnishing all pipes, hydrants and special castings, lead gaskets and everything to complete the work according to plans and specifications on file at the office of the Village Clerk.

The total length of pipe to be laid is approximately two thousand feet. Work is to be completed within thirty days from the date of contract.

Separate bids will also be received at the same place and hour for doing all the work, and also separate bids for furnishing all the material. Full plans and specifications may be examined at the office of the Village Clerk on application.

Each bid, either for the entire work and material or for the work alone, or for the material alone, must be accompanied by certified check or cash in the sum of 10% of the amount of bid, which is to be refunded to unsuccessful bidders at the time of awarding contract, and to the successful bidder when the contract is entered into, respectively.

The successful bidder will be required to furnish a proper bond for the faithful execution of the work, or of such part as may be awarded him, according to the terms of contract.

Dated at North Milwaukee, Wisconsin, this 8th day of October, A. D., 1904.

THOS. A. FITZSIMMONS,
President of the Board of Trustees, North Milwaukee.
Attest: W. E. CHASE,
16-2t Village Clerk.

REMOVAL OF BUILDINGS.

St. Louis, Mo.

Sealed proposals addressed to the Committee on Salvage and Sale of Buildings will be received at the Office of the Director of Works, Administration Building, until twelve (12.00) o'clock noon, Thursday, November 10, 1904, for the wrecking and removal of certain Exhibit Buildings now on the World's Fair grounds.

Specifications and instructions for the above mentioned work and drawings and specifications of the buildings to be wrecked can be seen at the office mentioned.

ISAAC S. TAYLOR,
16-1t Director of Works.

CAST-IRON PIPE.

Salem, Mass.

Sealed proposals for furnishing Cast-Iron Pipe and Special Castings will be received by the Sewerage Commission of Salem, Massachusetts, at their office, City Hall, Salem, Massachusetts, until 12 o'clock noon of November 4, 1904.

All proposals must be made on blank forms furnished the Engineer and must be accompanied by a certified check, payable to the City of Salem for the sum of one thousand dollars.

The approximate quantities required are:

1,600 lin. ft. 60" pipe and specials.
10,000 lin. ft. 30" pipe and specials.

Forms of proposal and specifications may be obtained at the office of the Engineer, City Hall, Salem, Massachusetts.

The Commission reserves the right to reject any or all bids.

JOSEPH N. PETERSON,
Chairman.
ERNEST W. BOWDITCH,
Engineer. 16-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 7, 1904.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 3d day of November, 1904, and then opened, for the installation of a conduit and electric wiring system for the U. S. Post Office and Court House, Athens, Georgia, in accordance with the drawings and specifications, copies of which may be obtained at this office, or at the office of the Superintendent of Construction at Athens, Georgia, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 15-2t

STEEL WATER TANK AND TOWER.

Waterman, Ill., Oct. 14, 1904.

Sealed proposals will be received by the undersigned up to 1 o'clock p. m. on Monday the 7th day of November, 1904, for the erection in place of one 30,000 U. S. gallon water tank and tower, including foundations, riser pipe, etc., as per specifications on file at the office of the Board of Trustees of the Village of Waterman, Ill.

All proposals must be accompanied by stress diagrams showing the general dimensions of the structure, thickness of material and size of members, together with a certified check (or its equivalent) for $300, made payable to S. M. Henderson, President.

The right is reserved to reject any or all bids.

S. M. HENDERSON,
16-1t President, Board of Trustees.

FORT MEADE, S. D., October 7, 1904.—Sealed proposals in triplicate for the construction, heating, plumbing and electric wiring of one double barrack, two set field officers quarters, one double set captains quarters, one double set lieutenants quarters, one double set N. C. O. quarters, all to be of brick, and for the construction of one frame stable, will be received here until 2 p. m., November 17, 1904. Information furnished upon application. U. S. reserves right to accept or reject any or all proposals or any part thereof. Plans and specifications can be seen with Quartermasters, St. Paul, Chicago, Omaha, Denver, St. Louis, Cheyenne. Envelopes containing proposals should be marked "Proposals for public buildings, Fort Meade, S. D.," addressed Major GEORGE K. HUNTER, Constructing Quartermaster. 16-4t

OFFICE OF THE COMMISSION, Washington, D. C., Sept. 28, 1904.—Sealed proposals will be received at the office of the Supervisor of Construction, 14th and E Streets, N. W., Washington, D. C., until 2 o'clock P. M. on October 27, 1904, and then opened, for furnishing cut stone for the Municipal Building. Information on application to Captain Chester Harding, Corps of Engineers, U. S. A., Supervisor of Construction, Municipal Building, Washington, D. C. Bids must be accompanied by certified check for fifteen thousand ($15,000) dollars. LESLIE M. SHAW, Secretary of the Treasury; HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners of the District of Columbia, Municipal Building Commission. 13-4t

U. S. ENGINEER OFFICE, Witherspoon Building, Philadelphia, Pa., Oct. 7, 1904.—Sealed proposals for constructing elevated discharge-pipe scow for pontoon pipe line for Southwest Pass, Mississippi River, will be received here until 12 noon, Nov. 7, 1904, and then publicly opened. Information furnished on application. J. C. SANFORD, Maj., Engrs. 15-4t

PROPOSAL ADVERTISEMENTS in

Engineering News

The following table is a summary of the proposal advertisements which appeared in **Engineering News** in June (5 weeks).

Construction work of **ALL KINDS** advertised in **Engineering News** reaches the notice of the leading contractors and supply firms in America.

If proposals are wanted from responsible firms it is only necessary to insert an advertisement in **Engineering News.** For 30 years this journal has been recognized as the leading medium by which to reach contractors and supply firms. This is proved by the fact that this journal carries nearly as much proposal advertising as do all the other engineering papers in America combined. The rate is only $2.40 an inch.

Competition Is Bound to Save Money

	Ins.	No. of Advts
Sewers and Sewage Disposal..	120	36
Buildings....................	68	44
Electric Light and Power....	23	11
Paving and Road Building...	222	59
Bridges and Metal Work......	57	20
Water Works	136	35
Dredging, Excavating, etc....	90	50
Garbage Crematory	4	2
Railway Work	8	5
Municipal Supplies	8	3
Bonds	5	1

For other Proposal Advertisements see pages 35, 36, 37, of Advertisements and Construction News page 198.